

SERVICE MANUAL

FE-2 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-25FX30B	D14 007		SCC-Q54H-A	KV-29FX30B	D14 007	50	200 05444
		FR	SCC-Q54H-A			FR	SCC-Q54J-A
KV-25FX30E	RM-887	ESP	SCC-Q53J-A	KV-29FX30E	RM-887	ESP	SCC-Q53K-A
KV-25FX30K	RM-887	OIRT	SCC-Q51K-A	KV-29FX30K	RM-887	OIRT	SCC-Q51L-A

FD Trinitron







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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED △ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

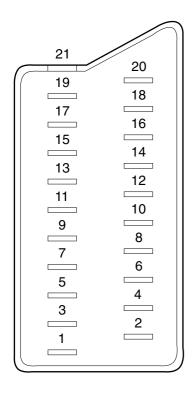
ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE △ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
В	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF: E2-E12, F2-F10 UHF: E21-E69, F21-F69, B21-B69 CABLE TV: S01-S03, S1-S20, B-Q HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
E	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E2-E12 UHF : E21-E69 CABLE TV : S01-S03, S1-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
К	B/G/H, D/K	GERMAN/NICAM Stereo	VHF: E2-E12, R01-R12 UHF: E21-E69, R21-R69 CABLE TV: S01-S03, S1-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Flat Display FD Trinitron Approx 63 cm (25 inches)		Sound output				
Picture Tube	(Approx 59 cm picture measured diagonally) Approx 73 cm (29 inches)	Right and Left speaker	2x14W (Music Power) 2x7W (RMS)			
	(Approx 67 cm picture measured diagonally)	General Specifications				
Input/Output Terminals [REAR]					
	Inputs for Audio and Video signals.	Power Requirements	220 - 240V			
1: 21-pin Euro connector (CENELEC standard)	Inputs for RGB. Outputs of TV Video and Audio signals.	Power Consumption	KV-25FX30 : 87 W KV-29FX30 : 94 W			
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video.	Dimensions	KV-25FX30 Approx 655x509x476 mm KV-29FX30 Approx 746x569x516 mm			
·	Outputs of TV Video and Audio signals. (selectable)	Weight	KV-25FX30 Approx 36kg KV-29FX30 Approx 46.5kg			
RCA Connectors	Variable Output for audio signals	Supplied Accessories	RM-887 Remote Commander (1) IEC designated R6 battery (2)			
Input/Output Terminals [FRONT]	Other Features	TV system Autodetection, Teletext Smartlink			
Headphone jack	stereo mini jack	Remote Control System : Infrared Control				
Audio inputs	phono jacks		3V dc			
Video inputs phono jacks		Power requirements	2 batteries IEC designation			
S Video input	4 pin DIN		R6 (size AA)			
Design and specifications are subject to change without notice.						

Model Name	KV-25FX30B	KV-25FX30E	KV-25FX30K
Item	KV-29FX30B	KV-29FX30E	KV-29FX30K
Pal Comb	OFF	OFF	OFF
PIP	OFF	OFF	OFF
RGB Priority	ON	ON	ON
Woofer Box	OFF	OFF	OFF
Scart 1	ON	ON	ON
Scart 2	ON	ON	ON
Front in (3)	ON	ON	ON
Scart 4	OFF	OFF	OFF
Projector	OFF	OFF	OFF
Norm B/G	ON	ON	ON
Norm I	ON	OFF	OFF
Norm D/K	ON	ON	ON
Norm AUS	OFF	OFF	OFF
Norm L	ON	OFF	OFF
Norm SAT	OFF	OFF	OFF
Norm M	OFF	OFF	OFF
Teletext	ON	ON	ON
Nicam Stereo	ON	ON	ON



Pin No	1	2	4	Signal	Signal level
	'	2	4	Signal	
1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V): Part mode Low state (0-2V): TV mode Input impedence: More than 10K ohms Input capacitance: Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
00	0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	0	0	0	Common ground (plug, shield)	

Connected

Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel

Front Connection Panel





S-Video socket

S Video socket pin configuration								
Pin No Signal Signal Level								
1	Ground	-						
2	Ground	-						
3	Y (S signal) input	1V +/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB						
4	C (S signal) input	0.3V +/- 3dB 75ohm, positive Sync.						

FE-2 SELF DIAGNOSTIC SOFTWARE

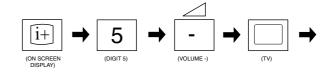
The identification of errors within the FE-2 chassis is triggered in one of two ways:-1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
Not Used	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Not Used	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Jungle controller 8 volts error	11

How to enter into Table 2

- 1. Turn on the main power switch of the TV set and enter into the
 - 'Stanby Mode'.
- Press the following sequence of buttons on the Remote Commander.



3. The following table will be displayed indicating the error count.

Flash Timing Example: e.g. error number 3

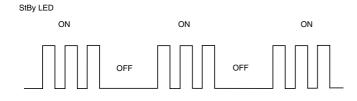


Table 2

ERROR MENU			
E02 E03 E04	OCP OVP N/A VSYNC	(0, 255) (0, 255) (0, 255)	0 0 0
E05	IKR	(0, 255)	0
E06 E07	IIC NVM	(0, 255) (0, 255)	0 0
E08	JUNGLE	(0, 255)	0
E09 E10	TUNER SOUNDP	(0, 255) (0, 255)	0 0
E11	8V	(0, 255)	0
WORKING TIME			0
HOURS MINUTES			2 11

Note: To clear the error count data press '80' on the Remote commander.

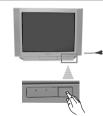
Switching On the TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screen appear on the TV enabling you to: 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the TV, 3) adjust the picture slant 4) search and store all available channels (TV Broadcast) and 5) change the order in which the channels (TV Broadcast) appear on the

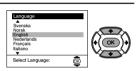
However, if you need to change any of these settings, you can do that by selecting the appropriate option in the 🖨 (Set Up menu) or by pressing the Auto Start Up Button 🖼

1 Connect the TV plug to the mains socket (220-240V AC,

Press the **①** on/off button on the TV set to turn on the TV. The first time you press this button, a Language menu displays automatically on the TV screen.



2 Press the ◆ or ◆ button on the remote control to select the language, then press the **OK** button to confirm your selection. From now on all the menus will appear in the selected language.



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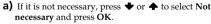
3 The Country menu appears automatically on the TV screen. Press the \bullet or \bullet button to select the country in which you will operate the TV set, then press the OK button to confirm your selection.

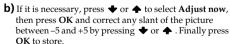


• If the country in which you want to use the TV set does not appear in the list, select "-" instead of a country.



4 Because of the earth's magnetism, the picture might slant. The **Picture Rotation** menu allows you to correct the picture slants if it is necessary.







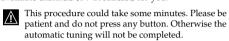


continued...

5 The Auto Tuning menu appears on the screen. Press the OK button to select Yes.



6 The TV starts to automatically search and store all available channels (TV Broadcast) for you.



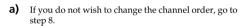


In the case that any channel have been found after the auto tuning process is completed, a new menu appears automatically on the screen asking you to connect the aerial. Please connect the aerial (see page 6) and press **OK**. The auto tuning process will start again.





7 After all available channels are captioned and stored, the **Programme Sorting** menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

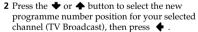


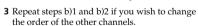




b) If you wish to change the channel order:

1 Press the **♦** or **♦** button to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press the button.









8 Press the MENU button to remove the menu from the





Introducing and Using the Menu System



Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

1 Press the **MENU** button to switch the first level menu on.



- $\mathbf{2} \bullet$ To highlight the desired menu or option, press lacktriangledown or lacktriangledown.
- To enter to the selected menu or option, press •
- To return to the last menu or option, press
- To alter settings of your selected option, press ◆ / ♠ / ♠ or ▶
- To confirm and store your selection, press **OK**.

3 Press the MENU button to remove the menu from the screen.

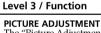


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Menu Guide

Level 1

Level 2



The "Picture Adjustment" menu allows you to alter the picture adjustments.

To do that: after selecting the item you want to alter press ♦ , then press repeatedly ♦ / ♠ /

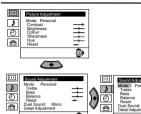
♦ or ▶ to adjust it and finally press **OK** to store the new adjustment.

This menu also allows you to customise the picture mode based on the programme you are watching:

- **Personal** (for individual settings).
- **Live** (for live broadcast programmes).
- **◆ Movie** (for films).
- Brightness, Colour and Sharpness can only be alterated if "Personal" mode is selected.
- Hue is only available for NTSC colour signal (e.g. USA video tapes).
- Select **Reset** and press **OK** to reset the picture to the factory preset levels.

continued..

Level 2 Level 3 / Function Level 1



SOUND ADJUSTMENT The "Sound Adjustment" menu allows you to alter the sound adjustments.

To do that: after selecting the item you want to alter, press ▶. then press repeatedly ▼ /

♠ / ♠ or ♠ to adjust it and finally press **OK** to store the new adjustment.

This menu also contains two submenus as following:

Mode

◆ Personal (for individual settings)

◆ Rock

◆ Pop

◆ Jazz

Detail Adjustment **◆** Sound Effect: **◆** Off: Normal.

◆ Spatial: Acoustic sound effect.

◆ Auto volume: ◆ Off: Volume channel changes according

to the broadcast signal.

On: Volume level of the channels will

stay the same, independent of the broadcast signal (e.g. in the case of

advertisements).

◆ TV Speakers: **◆** Off: Sound from external amplifier

connected to the audio outputs on

the rear of the TV set. Sound from the TV set. On:

• Treble and Bass can only be altered if "Personal" mode is selected.

- *Select Reset* and press **OK** to reset the sound to the factory preset levels.
- In case of a bilingual broadcast select **Dual Sound** and set **A** for sound channel 1, **B** for sound channel 2 or **Mono** for mono channel if available. For a stereo broadcast you can choose **Stereo** or **Mono**.

continued...

10 | Menu System



Level 2

๋∰)

Level 3 / Function

SLEEP TIMER

The "Sleep Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically into the standby mode.

To do that: after selecting the option press \blacklozenge , then press \blacktriangledown or \spadesuit to set the time period delay (max. of 4 hours) and finally press **OK** to store.

- While watching the TV, you can press the
 button on the remote control to display the time remaining.
- One minute before the TV switches itself into standby mode, the time remaining is displayed on the TV screen automatically.



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(V)

LANGUAGE / COUNTRY

The "Language/Country" option in the "Set Up" menu allows you to select the language that the menus are displayed in. It also allows you to select the country in which you wish to operate the TV set.

To do that: after selecting the option, press and then proceed in the same way as in the steps 2 and 3 of the section "Switching On the TV and Automatically Tuning".



AUTO TUNING

The "Auto Tuning" option in the "Set Up" menu allows you to automatically search for and store all available TV channels.

To do that: after selecting the option, press ♠ and then proceed in the same way as in TV steps 5 and 6 of the section "Switching On the TV and Automatically Tuning".

continued..

GB

Level 1

Level 3 / Function





Level 2

PROGRAMME SORTING
The "Programme Sorting" option in the "Set Up" menu allows you to change the order in which the channels (TV Broadcast) appear on the screen.

To do that: after selecting the option, press and then proceed in the same way as in step 7 b) of the section "Switching On the TV and Automatically Tuning".



PROGRAMME LABELS

The "Programme Labels" option in the "Set Up" menu allows you to name a channel using up to five characters (letters or numbers).

To do that:

- 1 After selecting the option, press ♣, then press ♣ or ♠ to select the programme number with the channel you wish to name.
- 2 Press ♠. With the first element of the Label column highlighted, press ◆ or ♠ to select a letter or number (select "-" for a blank), then press ♦ to confirm this character. Select the other four characters in the same way. Finally press OK to store.





AV PRESET

The "AV Preset" option in the "Set Up" menu allows you to designate a name to the external equipment you have connected to the sockets of this TV.

To do that:

- 1 After selecting the option, press →, then press → or → to select the input source you wish to name (AV1 and AV2 are for the rear Scarts and AV3 for front connectors). Then press →.
- 2 In the label column automatically appears a label:
- a) If you want to use one of the 6 predefined label (CABLE, GAME, CAM, DVD, VIDEO or SAT), press ◆ or ◆ to select the desired label and finally press OK to store.
- b) If you want to set a different label, select Edit and press ♣. Then with the first element highlighted, press ♣ or ♠ to select a letter, number or "-" for a blank, then press ♦ to confirm this character. Select the other four characters in the same way and finally press OK to store.

continued...

Level 1

Level 2

Level 3 / Function

MANUAL PROGRAMME PRESET

Picture Adjustment
Mode: Personal
Contrases
October
Sharpness
Hue
Pleset

Discording to the property of the pr

IIII SGUP
Language Country
Language Country
Language Country
Language Country
Di Language Country
Language Country
Programme Labels
Programme Labels
African Frogramme Preset
Betal Set Up

Manual Frogram
Manual Frogra

The "Manual Programme Preset" option in the "Set Up" menu allows you to:

- **a)** Preset channels or a video input source one by one to the programme order of your choice. To do that:
- 1 After selecting the "Manual Programme Preset" option, press → then with Programme option highlighted press →. Press → or → to select on which programme number you want to preset the channel (for VCR, select programme number "0"). Then press ◆.
- The following option is only available depending on the country you have selected in the "Language/Country" menu.

After selecting the **System** option, press ◆. Then press ◆ or ◆ to select the TV Broadcast system (B/G for western European countries or D/K for eastern European countries). Then press ◆.

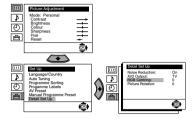
3 After selecting the Channel option, press ↑. Then press ♥ or ♠ to select the channel tuning ("C" for terrestrial channels or "S" for cable channels). Next press ♠. After that, press the number buttons to enter directly the channel number of the TV Broadcast or the channel of the VCR signal. If you do not know the channel number, press ♥ or ♠ to search for it. When you tune the desired channel, press OK twice to store.

Repeat all the above steps to tune and store more channels.

continued...

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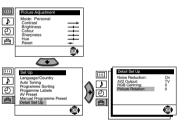
Level 1 Level 2 Level 3 / Function



RGB CENTRING

When connecting an RGB source, such as a "PlayStation", you may need to readjust the horizontal position of the picture. In that case, you can readjust it through the "RGB Centring" option in the "Detail Set Up".

To do that: while watching an RGB source select the "RGB Centring" option and press ♣. Then press ◆ or ♣ to adjust the centre of the picture between −10 and +10. Finally press OK to confirm and store.



PICTURE ROTATION

Because of the earth's magnetism, the picture might slant. In this case, you can correct the pictures slant by using the option "Picture Rotation" in the "Detail Set Up" menu.

To do that: after selecting the option, press ♣. Then press ♣ or ♠ to correct any slant of the picture between -5 and +5 and finally press **OK** to store.

Teletext

Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.



To Switch On Teletext:

After select the channel (TV Broadcast) which carries the teletext you wish to view, press



To Select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- If you have made a mistake, retype the correct page number.
- If the counter on the screen continues searching, it is because this page is not available. In that case, input another page number

To access the next or preceding page:

Press PROGR + () or PROGR - ().

To superimpose teletext on to the TV:

Whilst you are viewing teletext, press (a). Press it again to cancel teletext mode.

GB

To freeze a teletext page:

Some teletext pages have sub-pages which follow on automatically. To stop them, press ? Press it again to cancel the freeze.

To reveal concealed information (e.g. answer to a quiz):

Press (1+)/(?). Press it again to conceal the information.

To Switch Off Teletext:

Press \(\)

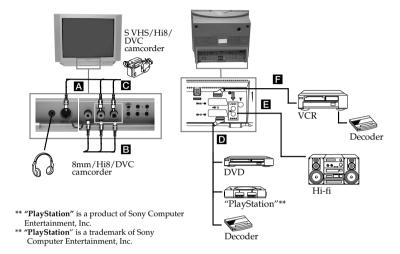
Fastext



Fastext service lets you access pages with one button push.
While you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) to access the corresponding page.

Connecting Optional Equipment

Using the following instructions, you can connect a wide range of optional equipment to your TV set. (Connecting cables are not supplied).



Connecting a VCR:

To connect a VCR, please refer to the section "Connecting the aerial and VCR" of this instruction manual. We recommend you connect your VCR using a scart lead. If you do not have a scart lead, tune in the VCR test signal to TV programme number "0" by using "Manual Programme Preset" option. (for details how to manual programme, see page 13, step a).

Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

Connecting a VCR that supports Smartlink:



Smartlink is a direct link between the TV set and the VCR. For more information on Smartlink is a unect mix ectives: all Smartlink, please refer to the instruction manual of your VCR. If you use a VCR that supports Smartlink, please connect the VCR by using a Scart lead to

the Scart $\hookrightarrow 2/-\$$

If you have connected a decoder to a VCR which supports Smartlink feature:

Select the "Manual Programme Preset" option in the "Set Up" menu and after entering in the "Decoder*" option, select "On" (by using ◆ or ♠). Repeat this option for each scrambling

*This option is only available depending on the country you have selected in the "Country" continued..

Specifications

TV system:

B/G/H, D/K

Colour system:

PAL, SECAM NTSC 3.58, 4.43 (only Video In)

Channel Coverage:

VHF: E2-E12 UHF: E21-E69 CATV: S1-S20 HYPER: S21-S41

D/K: R1-R12, R21-R69

Picture Tube:

Flat Display FD Trinitron KF-25FX30K: 25" (approx. 63 cm. measured diagonally)

KF-29FX30K: 29" (approx. 73 cm. measured diagonally)

Rear Terminals

⊕1/**-**@ 21-pin scart connector

(CENELEC standard) including audio/video input, RGB input, TV audio/video output.

→2/→S (SMARTLINK)

21-pin Scart connector (CÉNELEC standard) including audio / video input, S video input, selectable audio / video output and Smartlink

interface.

G audio outputs (Left/

Right) - phono jacks

Front Terminals

-S3 S Video input - 4 pin DIN

€3 video input – phono jack

€ 3 audio input – phono jacks

∩ headphones jack

Sound Output:

2 x 14 W (music power) 2 x 7 W (RMS)

Power Consumption:

KF-25FX30K: 87 W KF-29FX30K: 94 W

Standby Power Consumption:

Dimensions (w x h x d):

KF-25FX30K: Approx. 655 x 509 x 476 mm. KF-29FX30K: Approx. 746 x 589 x 516 mm.

Weight:

KF-25FX30K: Approx. 36 Kg. KF-29FX30K: Approx. 46.5 Kg.

Accessories supplied:

1 Remote Control (RM-887) 2 Batteries (IEC designated)

Other features:

• Teletext, Fastext, TOPtext

• Sleep Timer

• Smartlink (direct link between your TV set and a compatible VCR. For more information on Smartlink, please refer to the Instruction Manual of your VCR).

• TV system Autodetection.

Design and specifications are subject to change without notice.

Ecological Paper- Totally Chlorine Free



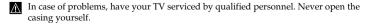
Troubleshooting



Here are some simple solutions to the problems which may affect the picture and sound.

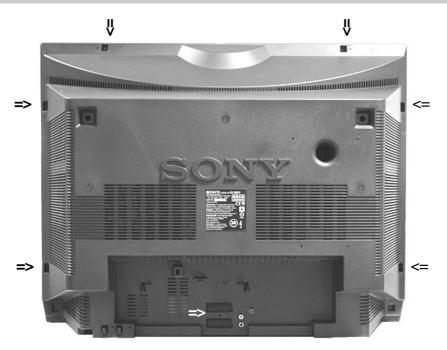
Problem	Solution
No picture (screen is dark) and no sound.	 Check the aerial connection. Plug the TV in and press the button on the front of TV.
	• If the standby indicator \circ is on, press \circ button on the remote control.
Poor or no picture (screen is dark), but good sound.	Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings.
No picture or no menu information from equipment connected to the Scart connector.	• Check that the optional equipment is on and press the € button repeatedly on the remote control until the correct input symbol is displayed on the screen.
Good picture, no sound.	 Press the ∠+/- button on the remote control. Check that "TV Speakers" is "On" on the "Sound Adjustment" menu.
No colour on colour programmes.	Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings.
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing teletext.	Using the menu system, enter to the "Language/ Country" menu and select the country in which you operate the TV set.
Picture slanted	Using the menu system, select the "Picture Rotation" option in the "Detail Set Up" menu to correct the picture slant.
Noisy picture when viewing a TV channel.	Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception. Using the menu system, select the "Noise Reduction" option in the "Detail Set Up" menu and select "On" to reduce the noise in the picture.
No unscrambling whilst viewing a scrambling channel with a decoder connected through the Scart connector \$\inser*2/\frac{1}{8}\$.	Using the menu system, select the "Set Up" menu. Then enter to "Detail Set Up" option and set "AV2 Output" to "TV".
Remote control does not function.	Replace the batteries.
The standby indicator o on the TV flashes.	Contact to your nearest Sony service centre.

GB



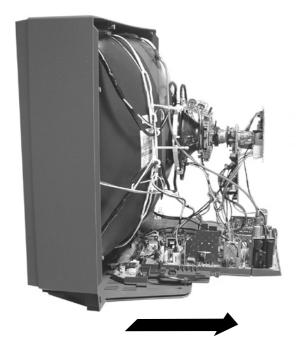
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal

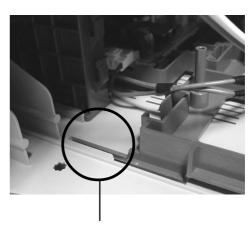


Release the mains power cable from its securing posts. Remove the rear cover fixing screws indicated. Pull the rear cover away from the front beznet.

2-2. Chassis Removal and Refitting

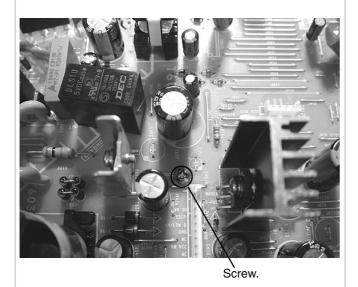


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



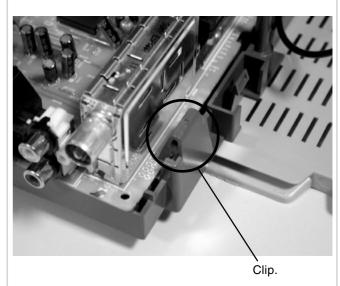
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the interconnecting leads in their respective purse locks.

2-3. A Board PWB Removal [Step 1]



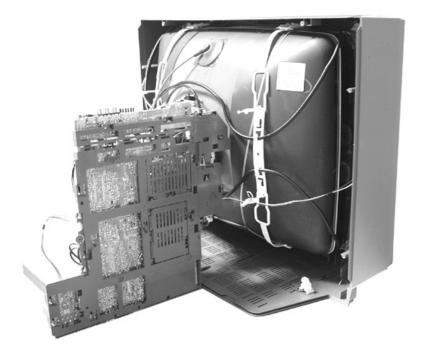
Remove the screw securing the PWB to the main bracket.

2-4. A Board PWB Removal [Step 2]



Release the 3 securing clips located at the side of the chassis and slide the PWB clear of the bracket.

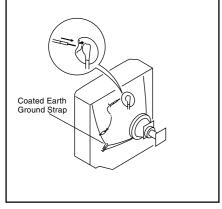
2-5. Service Position

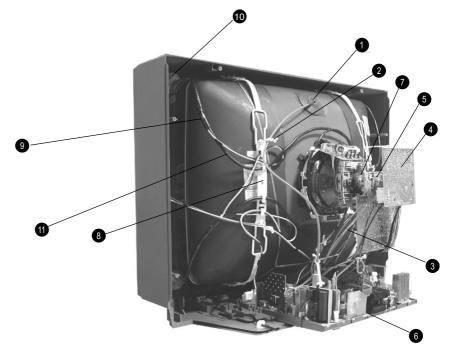


Place the chassis in the position indicated to carry out servicing. To gain access to the high voltage areas of the A Board the bootom plates need to be removed (see page 15).

WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

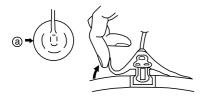




- 1. Discharge the anode of the CRT and remove the anode cap.
- 2. Release the EHT lead from its CRT support bracket.
- 3. Unplug all interconnecting leads from the Deflection yoke, degaussing coils, Rotation coil and CRT grounding strap.
- 4. Remove the C Board from the CRT.
- 5. Loosen the VM Block fixing screw and remove.
- 6. Remove the chassis assembly.
- 7. Loosen the Deflection yoke fixing screw and remove.
- 8. Remove the Degaussing Coil holders.
- 9. Place the set with the CRT face down on a cushion.
- 10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
- Remove the Degaussing Coils.
 Remove the CRT grounding strap and spring tentioners.
 [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

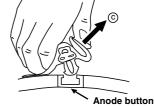
* REMOVING PROCEDURES.



(1) Turn up one side of the rubber cap in the direction indicated by the arrow (a)



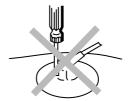
2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)



) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

How to handle the Anode-Cap

- . To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
- Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.





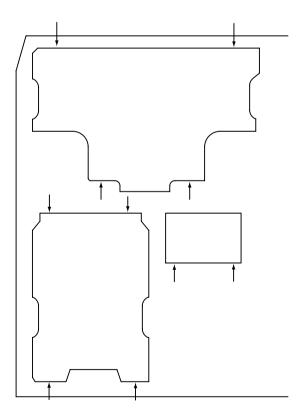
REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.

This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note: There are 3 plates fitted to the main bracket and secured by 3 gates. Only remove the necessary plate to gain access to the printed wiring board.



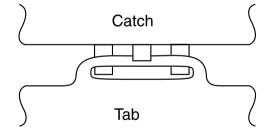


For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast 80% [or remote control normal]

Brightness 50%

Carry out the adjustments in the following order:

- 3-1. Beam Landing.
- 3-2. Convergence.
- 3-3. Focus.
- 3-4. White Balance.

Note: Test equipment required.

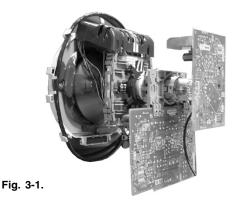
- Color bar/pattern generator.
- 2. Degausser.
- 3. Oscilloscope.
- 4. Digital multimeter.

Preparation:

- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- 2. Switch on the set's power and degauss with the degausser.

3-1. Beam Landing

- Input an all white signal from the pattern generator. Set the Contrast and Brightness to normal.
- 2. Set the pattern generator raster signal to Red.
- 3. Move the deflection yoke forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 3-3].
- Move the deflection yoke backwards and adjust so that the entire screen becomes Red. [See Fig.3-1]
- Switch the raster signal to Blue, then to Green and verify the condition.
- When the position of the deflection yoke has been determined, fasten the deflection yoke with the screws.
- 7. If the beam does not land correctly in all the corners, use a magnet to correct it. [See Fig.3-4]



Caution:

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.



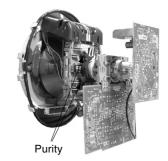
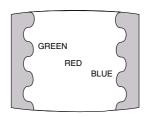


Fig. 3-3.



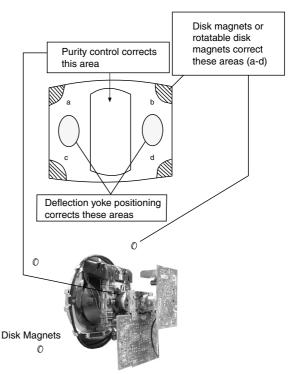


Fig.3-4

3-2. Convergence

Preparation:

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

Horizontal and Vertical Static Convergence

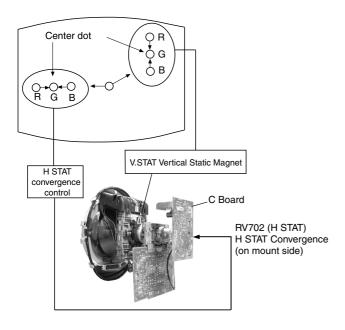
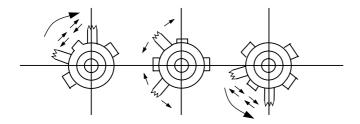


Fig.3-5

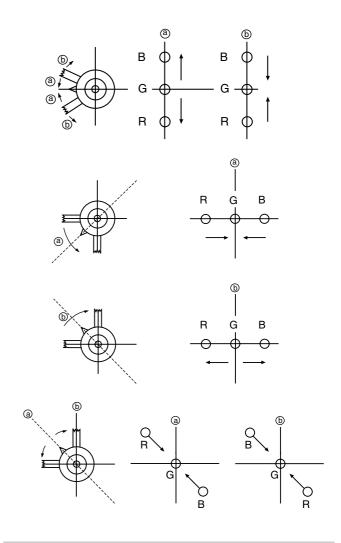
- [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below

[In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

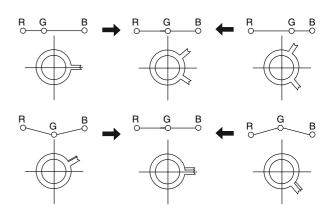
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



 If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue points move as indicated below.



Operation of the BMC (Hexapole) magnet.



The movement of the magnets interact with each other and so the respective dot position should be monitored while carrying out this adjustment.

Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen

(by moving the dots in the horizontal direction).

Geometry Adjustment.

Preparation:

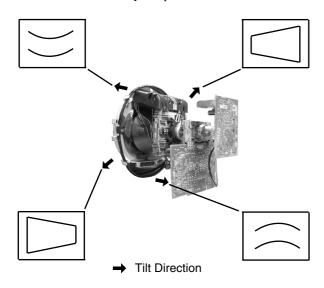
Before starting this adjustment, adjust the horizontal and vertical static convergence.

- 1. Remove the deflection yoke spacer.
- Tilt the deflection yoke as indicated in the figure below and optimise the geometry.

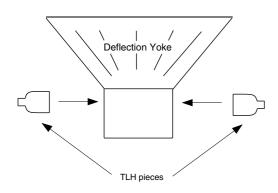
Tilting the DY Up and Down will balance the upper and lower pin adjustment.

Tilting the DY Left and Right will balance the H-Trap adjustment.

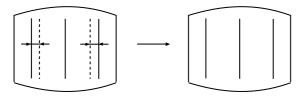
3. Re-install the deflection yoke spacer.



HTIL Adjustment



HTIL correction can be performed by adding a TLH correction assembly to the Deflection yoke.



YCH Adjustment

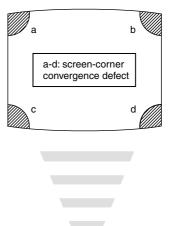


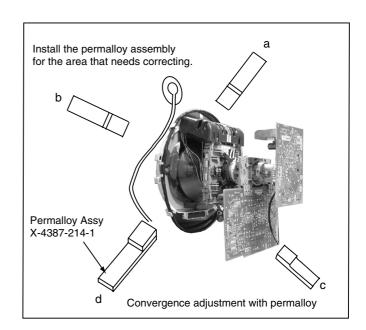
TLV Adjustment



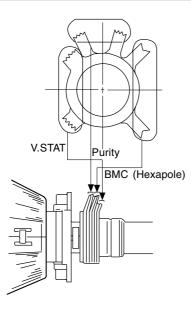
Screen Corner Convergence

If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



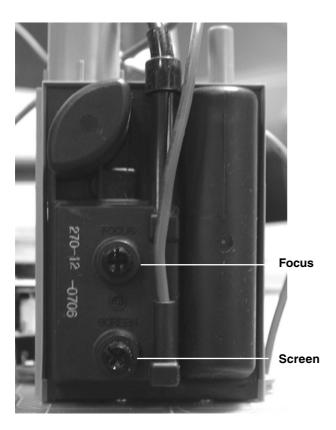


Layout of each control



3-3. Focus Adjustment

- Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control located on the flyback transformer
 to obtain the best focus at the centre of the screen.
 Bring only the centre area of the screen into focus, the
 magenta-ring appears on the screen. In this case, adjust the
 focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

- 1. Input a dot signal from the pattern generator.
- Enter the 'Service Mode' by pressing 'TEST', 'TEST' and '38' (TT-38) on the remote commander, to set up the G2 service adjustment mode.
- Whilst watching the picture, adjust the G2 control [SCREEN] located on the Flyback Transformer to the point where the OSD menu indication shows "OK".

White balance adjustment for TV mode

- 1. Input an all-white signal from the pattern generator.
- Enter into the 'Service Mode' by pressing 'TEST', 'TEST' and 'MENU' on the Service Commander.
- 3. Select 'Service' from the on screen menu display and press the right arrow button on the remote commander.
- 4. The 'Service' menu will appear on the screen. [See Page 19]
- 5. Set the 'Contrast' to MAX.
- 6. Set the 'R-Drive' to 25.
- 7. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
- 8. Press the 'OK' button to write the data for each item.
- 9. Set the 'Contrast' to MIN.
- 10. Adjust the 'G-Cutoff', and the 'R-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 11. Press the 'OK' button to write the data for each item.

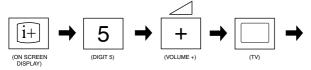
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the suppliedemote Commander RM-887.

How to enter into the Service Mode

- Turn on the main power switch and enter into the stand-by mode.
- Press the following sequence of buttons on the Remote Commander.



'TT—' will appear in the upper right corner of the screen. Other status information will also be displayed.

Press 'MENU' on the remote commander to obtain the following menu on the screen.

Geometry Service Design Status Sound IF adjust Error Menu
FE-2 Stereo v1.30 Factory data FFh FFh MSP Device : MSP3411G

- Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- 5. Press the right arrow button to enter into the required menu item.
- Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note:

ON.

- Before performing any adjustments ensure that the correct model has been selected in the 'Model Setting' menu.
- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then

ERROR MENU			
E02 E03 E04 E05 E06 E07 E08 E09	OCP OVP N/A VSYNC IKR IIC NVM JUNGLE TUNER	(0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255)	0 0 0 0 0
E10 E11	SOUNDP 8V	(0, 255) (0, 255)	0
WORKING TIME HOURS MINUTES			2 11

SERVICE		
Offset-R Offset-G R-Drive G-Drive B-Drive Peak-Freq Luma-Delay SCO White-Peak Subcont Subright Subcol	(0, 63) (0, 63) (0, 63) (0, 63) (0, 63) (0, 15) (0, 3) (0, 15) (0, 15) (0, 63) (0, 63)	Adj Adj 25 Adj O 8 2 15 4 31 Adj
Subsharp	(0, 63)	31
Cutoff Br. Br OSD	(0, 63) (0, 15)	60 10
Br TXT	(0, 15)	9

GEOMETRY		
GLOWLINI		
V-Linearity V-Scroll Left-HBlk Right-HBlk V-Angle V-Bow H-Centre H-Size Pin-Amp U-Corner-Pin L-Corner-Pin Pin Phase V-Slope V-Size S-Correction V-Centre	(0, 63) (0, 63) (0, 15) (0, 15) (0, 63) (0, 63)	Adj 32 8 6 Adj Adj Adj Adj Adj Adj Adj Adj Adj
Magenta	(0, 63)	40

IF ADJUST		
AGC Adjust Automute Audio Gain L Gating	(-16, +15)	+0 1 0 0

Sub Brightness Adjustment

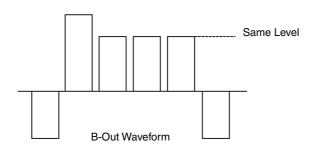
- 1. Input a Monoscope pattern.
- 2. Press 'TEST' 'TEST' 13 on the Remote Commander.
- 3. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

- Input a video signal that contains a small 100% white area on a black background.
- 2. Connect an digital voltmeter to Pin 10 of J701 [C Board].
- Adjust the Sub-Contrast ['TT11'] to obtain a voltage of 105 +/- 5V (KV-29FX30) or 96 +/-5V (KV-25FX30).

Sub Colour Adjustment

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 5 of CN003 [A Board].
- 3. Enter into the 'Service' service menu.
- Adjust the 'Sub Colour' data so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.

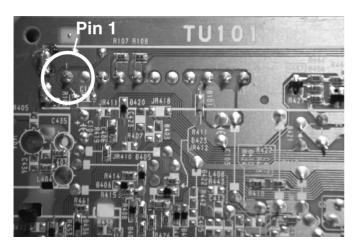


Tuner AGC Adjustment

Note:

There should be no need to adjust the AGC as this is preadjusted during manufacture of the FRONTEND. If the AGC does need adjustment then follow steps 1. to 4. below.

- 1. Receive a signal of 62 dBuV / 75 ohm terminated via the tuner antenna socket.
- Connect a voltmeter to pin1 of TU101 [print side of A Board] or to the AGC pin of CN001 [mount side of A Board].
- 3. Confirm that the AGC voltage is 3.5volts +/- 0.3volts.
- 4. If adjustment is required, then re-adjust the AGC variable resistor (located at the top rear of the FRONTEND) to obtain a voltage of 3.5V + /-0.3V.

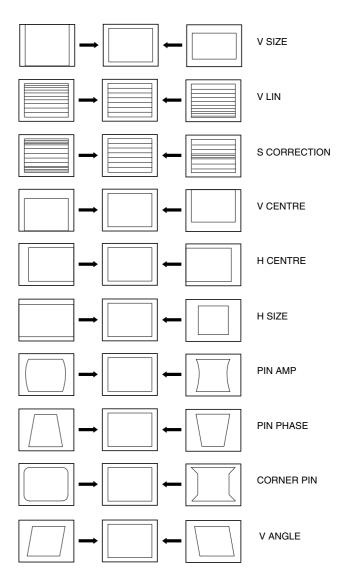


[Print side of A board]

Deflection System Adjustment

- 1. Enter into the 'Geometry' service menu.
- 2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY		
V-Linearity V-Scroll Left-HBlk Right-HBlk V-Angle V-Bow H-Centre H-Size Pin-Amp U-Corner-Pin L-Corner-Pin Pin Phase V-Slope V-Size S-Correction V-Centre V-Zoom Magenta	(0, 63) (0, 63) (0, 15) (0, 15) (0, 63) (0, 63)	Adj 32 8 6 Adj Adj Adj Adj Adj Adj Adj 40



4-2.TEST MODE 1:

Test Mode 1 is available by pressing the 'TEST' button once, OSD 'T' appears. The functions described below are available by selecting the indicated keys. The 'T' is released automatically after each command is executed.

KEY	T-MODE FUNCTION
volume +	volume maximum
volume -	Picture minimum
picture +	Picture maximum
picture -	Picture minimum
colour up	colour maximum
colour down	colour minimum
brightness - bright	brightness maximum
brightness - dark	brightness minimum
hue - purplish	hue - purplish
hue - greenish	hue - greenish
sharpness - sharp	sharpness maximum
sharpness - soft	sharpness minimum
balance left	balance full left
balance right	balance full right
treble up	treble maximum
treble down	treble minimum
bass up	bass maximum
bass down	bass minimum

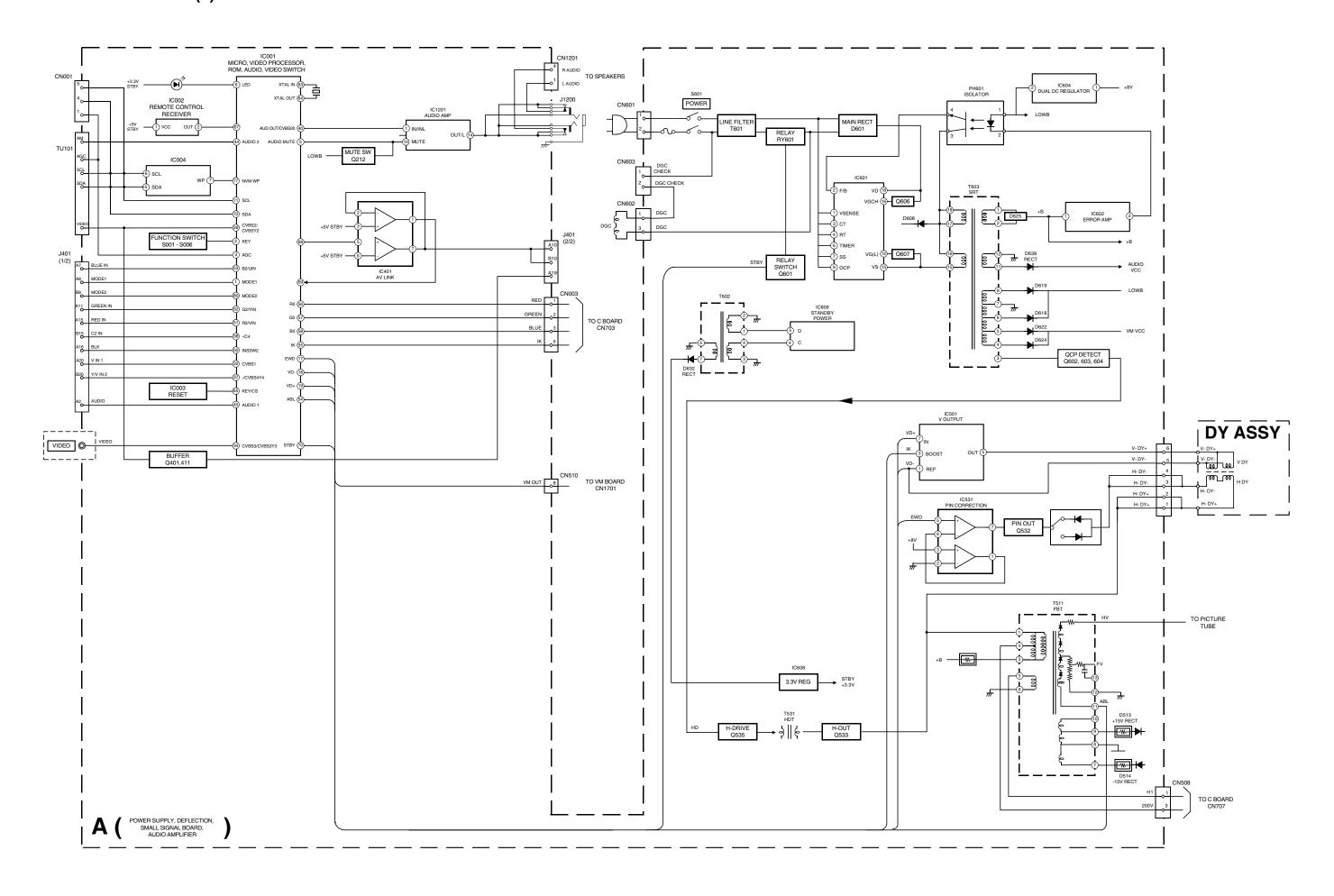
4-3.TEST MODE 2:

Test Mode 2 is available by pressing the 'TEST' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

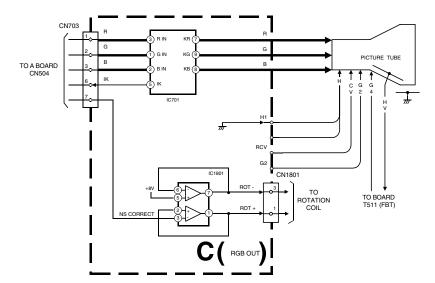
00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub Brightness adjustment
14	Text H Position adjustment
15	Rotation Coil Test
16	Picture level 50%
19	Factory Mode Enable/Disable
21	Destination ADEKR
22	Destination BL
23	Destination ADEKR
24	Destination U
25	Destination ADEKR
26	Destination BL

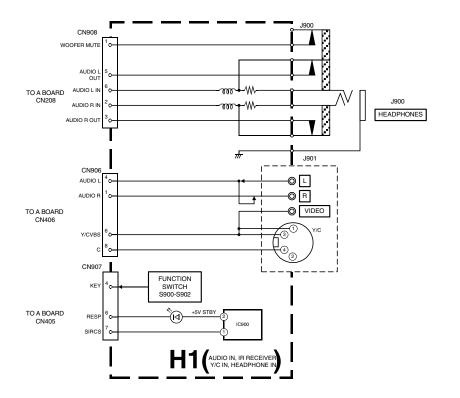
27	Destination ADEKR
28	Destination ADEKR
31	Auto Shutoff Enable/Disable
33	Rotation ON/OFF
35	CRT 4:3 <> 16:9 ; Display TV status
36	Velocity Modulation (VM) OFF/ON test
38	G2 adjustment
41	Re-initialise NVM
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound
46	Select Stereo sound
48	Set NVM as non virgin
49	Set NVM as virgin
51	Virtual Dolby on/off
52	Subwoofer / MPB (Bass enhancement) Enable
54	Dot structure C/M (chroma trap)ination ADEKR
55	Tuner selection (SONY/ALPS)
56	BBE enable/disable
57	BBE menu line enable/disable
61	Auto AGC Adjustment
62	AM from baseband enable/disable
63	Enable/Disable YC3 connector
64	Enable/Disable RGB priority
65	RGB auto-detect enable/disable
66	On timer enable/disable
67	Manual AGC Adjustment
68	Enable/Disable X26 countermeasure (N problem)
69	Enable/Disable ACI feature
71	Force PAL video
72	Un-force PAL (restore normal video condition)
73	Enable Zweiton D/K2 system (6.5/6.74)
74	Enable Zweiton D/K3 system (6.5/5.74)
78	Balance full left
79	Balance full right
87	Local keys test
89	Enable/Disable watchdog
91	Set 14:9 zoom mode
92	Set SMART zoom mode
93	Set 16:9 zoom mode
94	Set ZOOM mode
95	Set 4:3 zoom mode
99	Display Error and Working Time menu

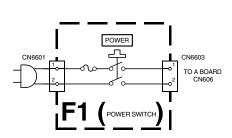
5-1. BLOCK DIAGRAMS (1)

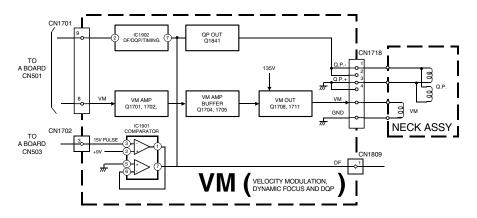


5-1. BLOCK DIAGRAMS (2)

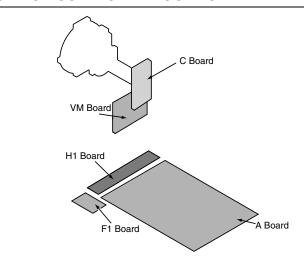








5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted.
- pF: µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
- k = 1000 ohms, M = 1000,000 ohms

• : nonflammable resistor.

: fusible resistor.

• : internal component.

: panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.

• ______ ß

• = = : B - bus

• : RF signal path.

• ___ : earth - ground.

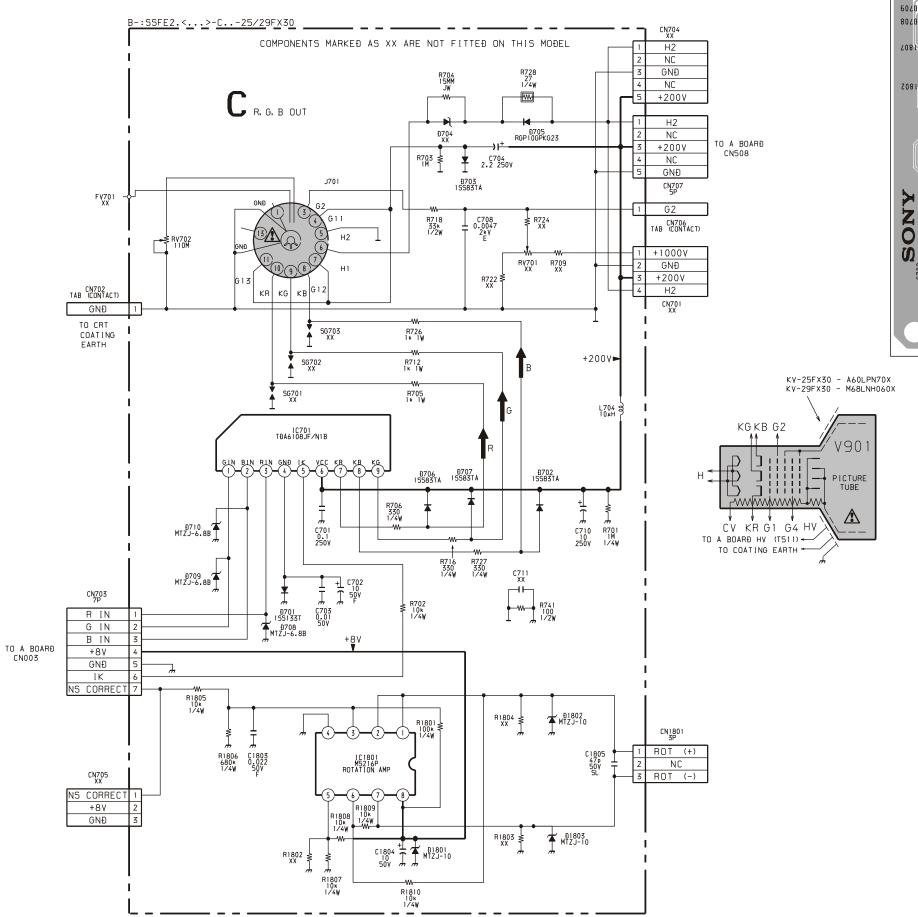
• : earth - chassis

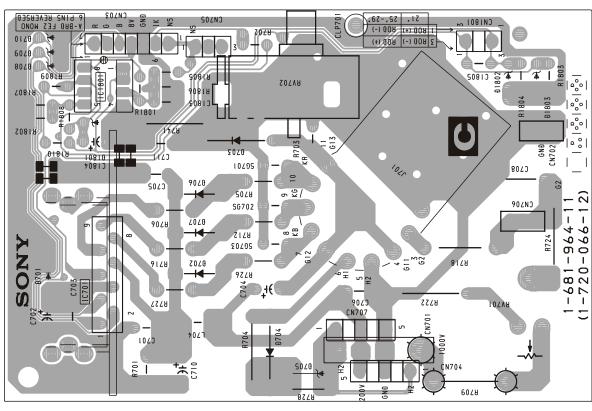
Reference Information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

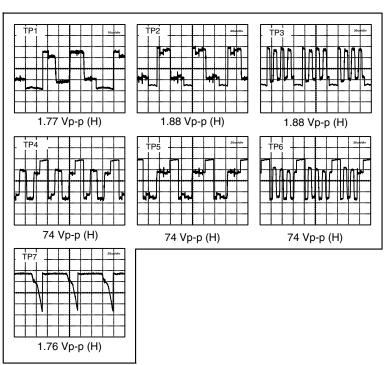
Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

Note: Les composants identifiés par une trame et par une marque △ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.





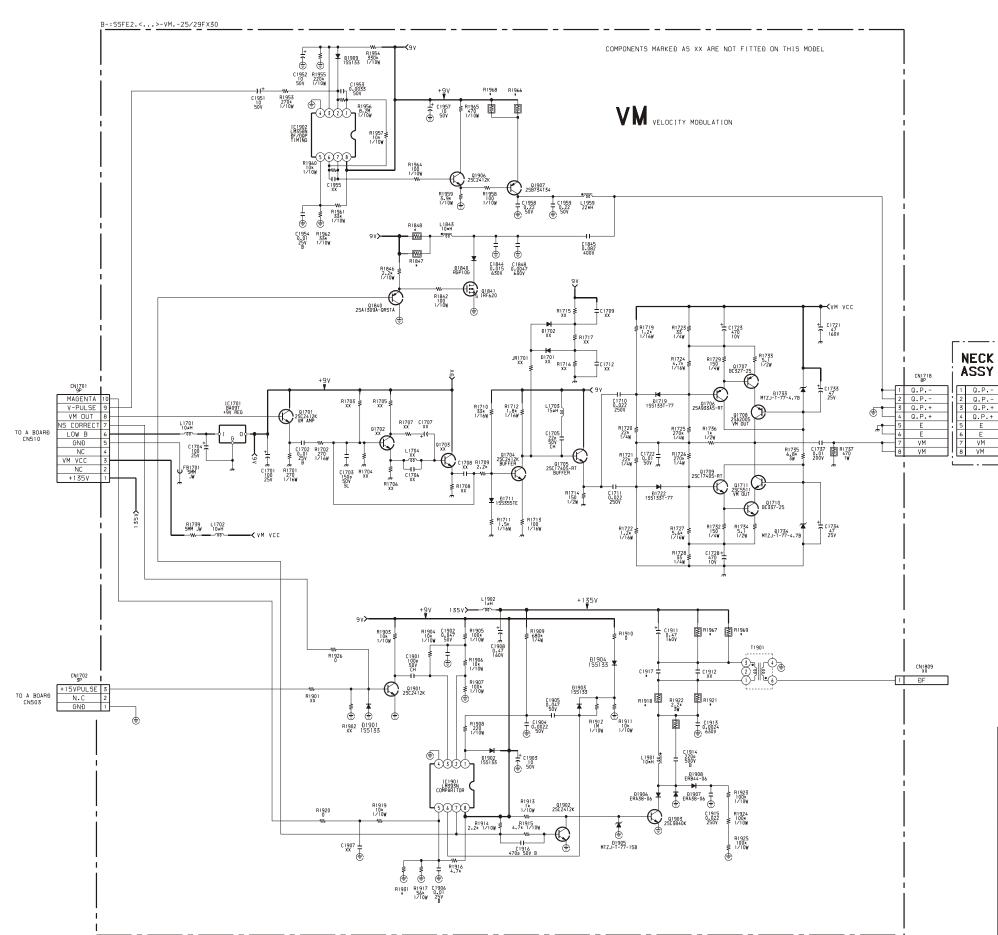
CBoardWaveforms

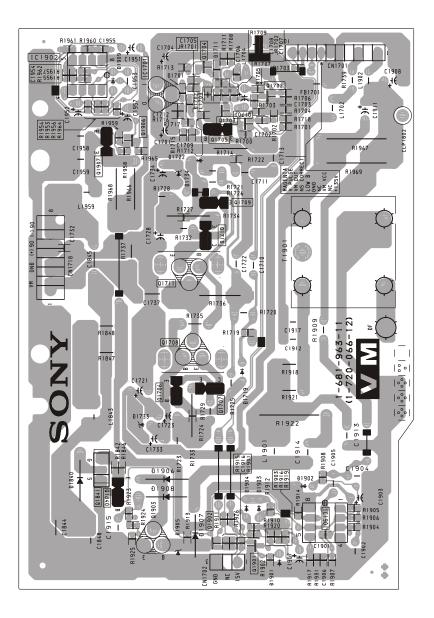


IC Voltage Table

Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	1	3.1		1	1.3
	2			2	1.3
	3	3.0		3	1.4
IC1701	5	5.5	IC1801	5	4.1
	7	131		6	4.1
	8	123		7	7.0
	9	124.6		8	8.0

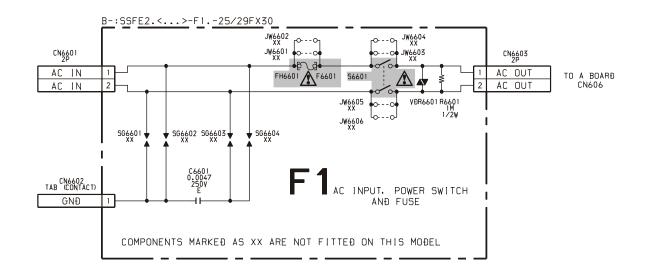
C [R,G,B OUT]

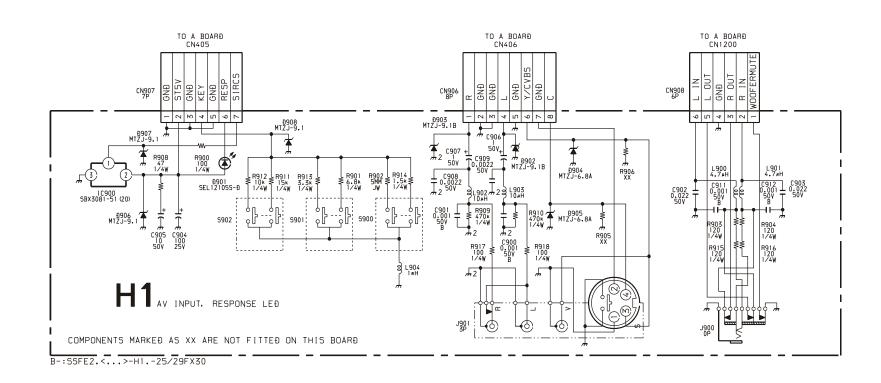


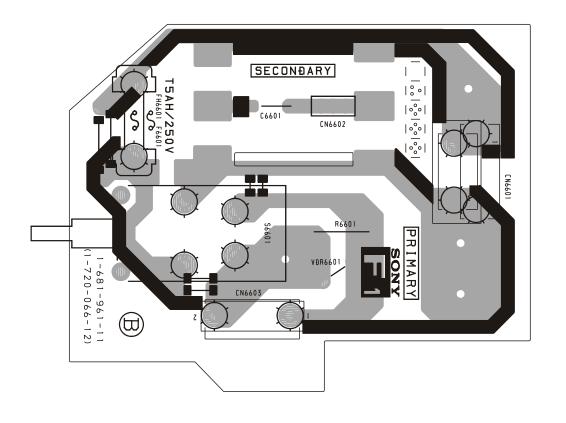


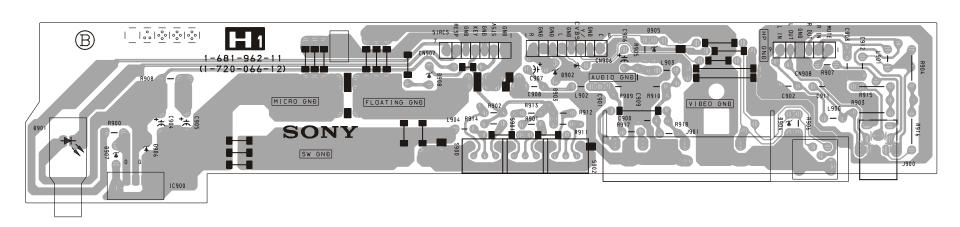
Difference Table

Ref	25FX30B	25FX30E	25FX30K	29FX30B	29FX30E	29FX30K
C1917	-	-	-	470pF	470pF	470pF
R1847	82	82	82	180	180	180
R1848	68	68	68	100	100	100
R1918	5.6K	5.6K	5.6K	6.8K	6.8K	6.8K
R1921	5.6K	5.6K	5.6K	6.8K	6.8K	6.8K
R1931	39K	39K	39K	47K	47K	47K
R1966	150	150	150	100	100	100
R1967	1K	1K	1K	6.8K	6.8K	6.8K
R1968	150	150	150	100	100	100
R1969	1K	1K	1K	5.6K	5.6K	5.6K



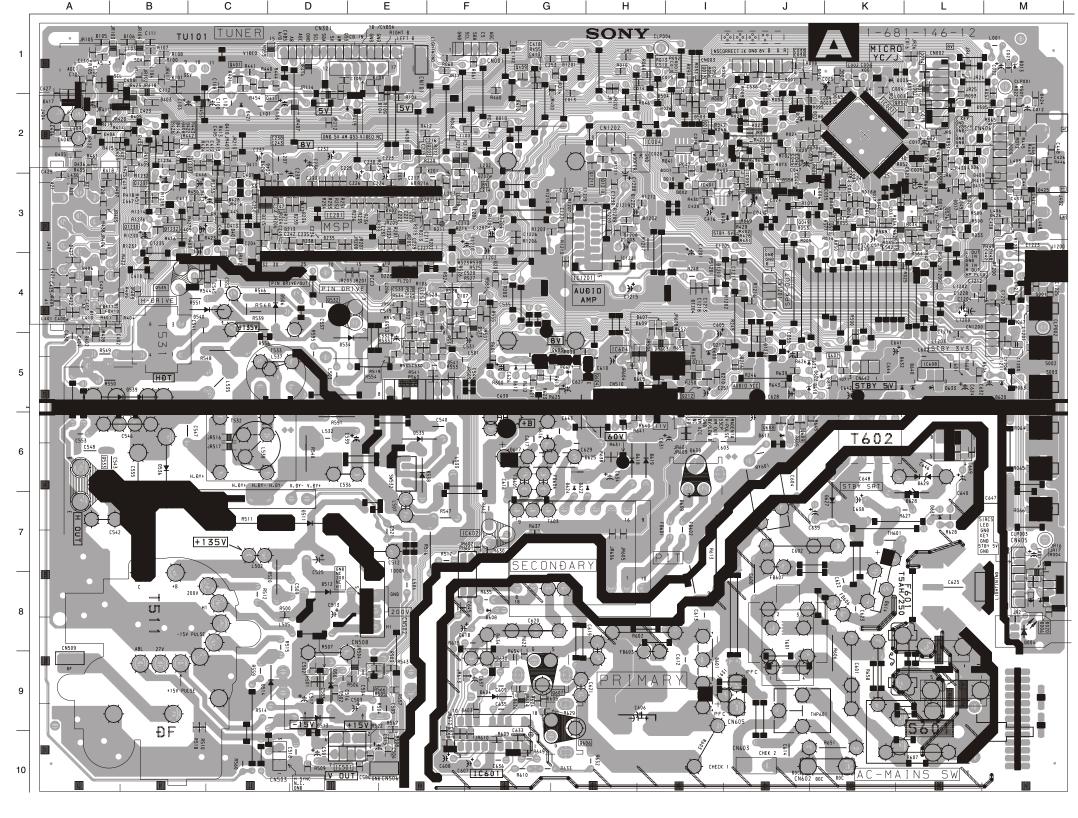






F1 [AC FILTER, FUSE, SIRCS]

H2 [AV3 INPUT]



IC Voltage Table

Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)
	1	0		50	0.2	IC501	6	13.9
	2	3.2		51	2.5	10301	7	0.3
	3	2.9		52	2.5		1	1.4
	5	0		53	2.5		2	2.3
	6	2.0		54	2.1	IC531	3	1.8
	8	2.3		55	5.2	10351	5	2.4
	9	8.0		56	3.0		6	1.6
	10	5.0		57	3.1		7	6.4
	12	0		58	3.1		1	-80.4
	13	0		59	3.2		2	-80.5
	14	4.0		62	0		3	-80.2
	16	1.4		63	0	IC601	4	-80.2
	17	1.5	IC001	64	0		5	-81.5
	18	0		65	0		6	-81.6
	19	0		67	4.8		7	-77.8
IC001	20	3.8		68	0.4		9	-81.8
10001	21	3.8		69	0		10	-76
	22	5.0	0 71 0 3.5 72 0	70	0		11	-81.9
	26	0		71	0		12	-79.4
	28	3.5		72	0		14	16.5
	29	3.6			15	11		
	30	1.9		74	5.0		16	14.4
	31	0.3		75	8.1		18	86.4
	32	3.6		76	-3.5		1	11
	34	1.9		77	0		3	4.9
	35 1.4 78 36 3.9 79 38 1.8 80		78	3.2		5	0	
			79	3.2		6	0	
		80	0	IC1201	7	11.3		
	40	3.3	3.3 1 1.4	9	0.3			
	42	3.3	IC501	2	2.3		10	0
	43	1.4	10501	3	1.8		12	0
	45	0		5	2.4		14	11.35

Semiconductor Voltage Table

Ref	(e)	(b)	(c)
Q013	0	0.7	0
Q016	0	0	3.3
Q212	0	0.7	0
Q401	4.8	4.2	1.8
Q411	1.1	1.7	4.2
Q601	5.6	4.8	5.3
Q602	14.2	5.1	8
Q603	8	8	0
Q604	0	0	2.5
Q608	0	0	5.6
Q609	5.6	5.6	0
Ref	(s)	(g)	(d)
Q606	10.9	14.5	86.7
Q607	-82.4	-79.9	10.9
Q535	0	2.5	95.2

Difference Table

Ref	25FX30B	25FX30E	25FX30K	29FX30B	29FX30E	29FX30K
C530	-	-	-	0.01UF	0.01UF	0.01UF
C532	0.0047UF	0.0047UF	0.0047UF	0.022UF	0.022UF	0.022UF
C536	0.75UF	0.75UF	0.75UF	0.82UF	0.82UF	0.82UF
C537	0.0047UF	0.0047UF	0.0047UF	0.0022UF	0.0022UF	0.0022UF
C546	0.056UF	0.056UF	0.056UF	0.051UF	0.051UF	0.051UF
C547	0.75UF	0.75UF	0.75UF	0.82UF	0.82UF	0.82UF
C1232	-	-	-	0.1UF	0.1UF	0.1UF
D505	ISS355TE-17	ISS355TE-17	ISS355TE-17	MMDL914T1	MMDL914T1	MMDL914T1
R517	24K	24K	24K	12K	12K	12K
R521	470K	470K	470K	180K	180K	180K
R525	2.2K	2.2K	2.2K	470	470	470
R532	10K	10K	10K	2.7K	2.7K	2.7K
R534	330K	330K	330K	390K	390K	390K
R535	330K	330K	330K	68K	68K	68K
R541	-	-	-	330K	330K	330K
R546	470	470	470	560	560	560
R548	4.7	4.7	4.7	3.3	3.3	3.3
R562	100K	100K	100K	120K	120K	120K
R563	-	-	-	100K	100K	100K
R595	1.2	1.2	1.2	0.47	0.47	0.47
R600	270	270	270	330	330	330
T533	1-435-347-11	1-435-347-11	1-435-347-11	1-433-906-11	1-433-906-11	1-433-906-11
TU101	BTF-EF411	BTF-EC411	BTF-EC411	BTF-EF411	BTF-EC411	BTF-EC411

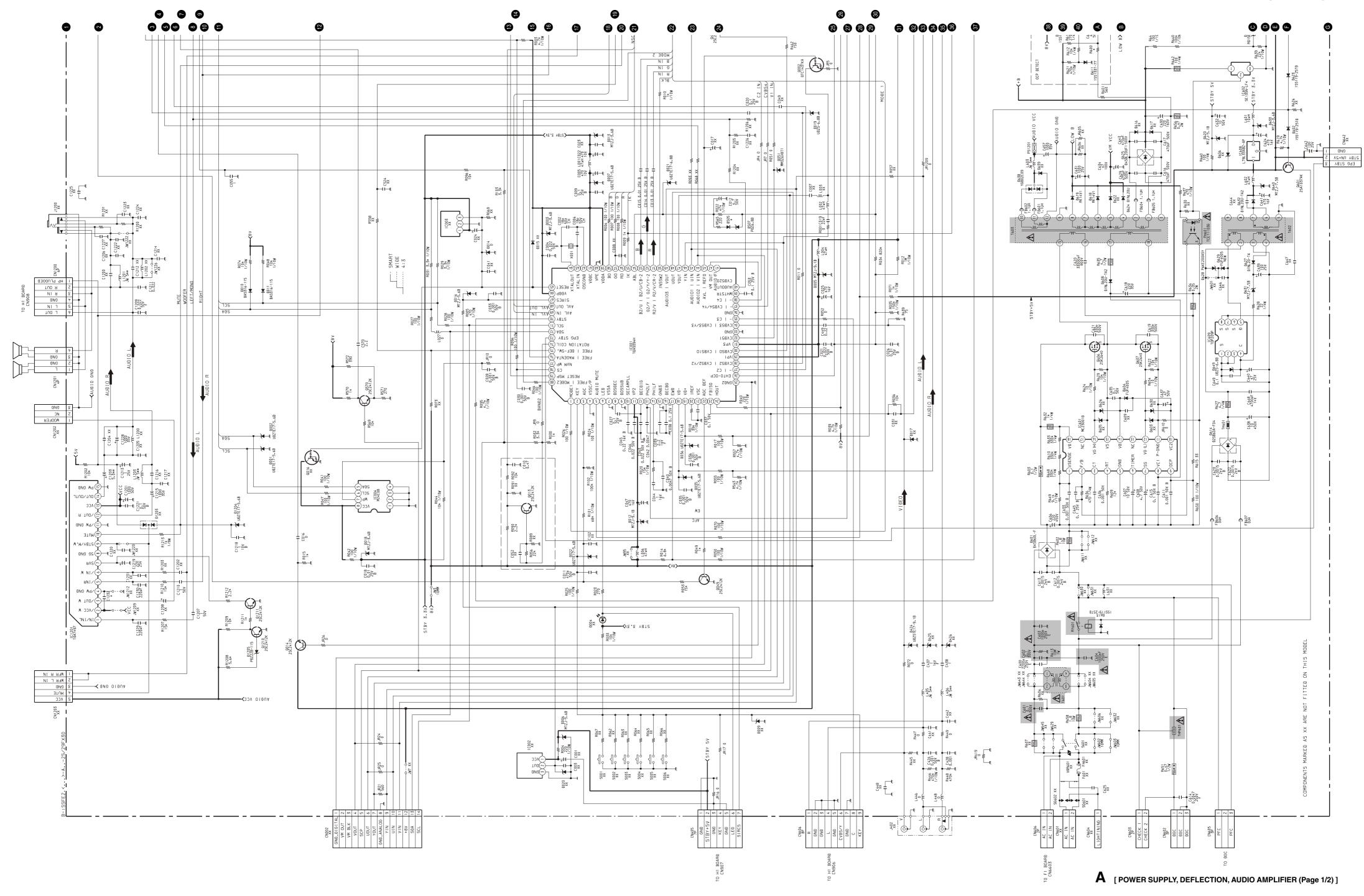


NOTE:
Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shock during inspection or repair.

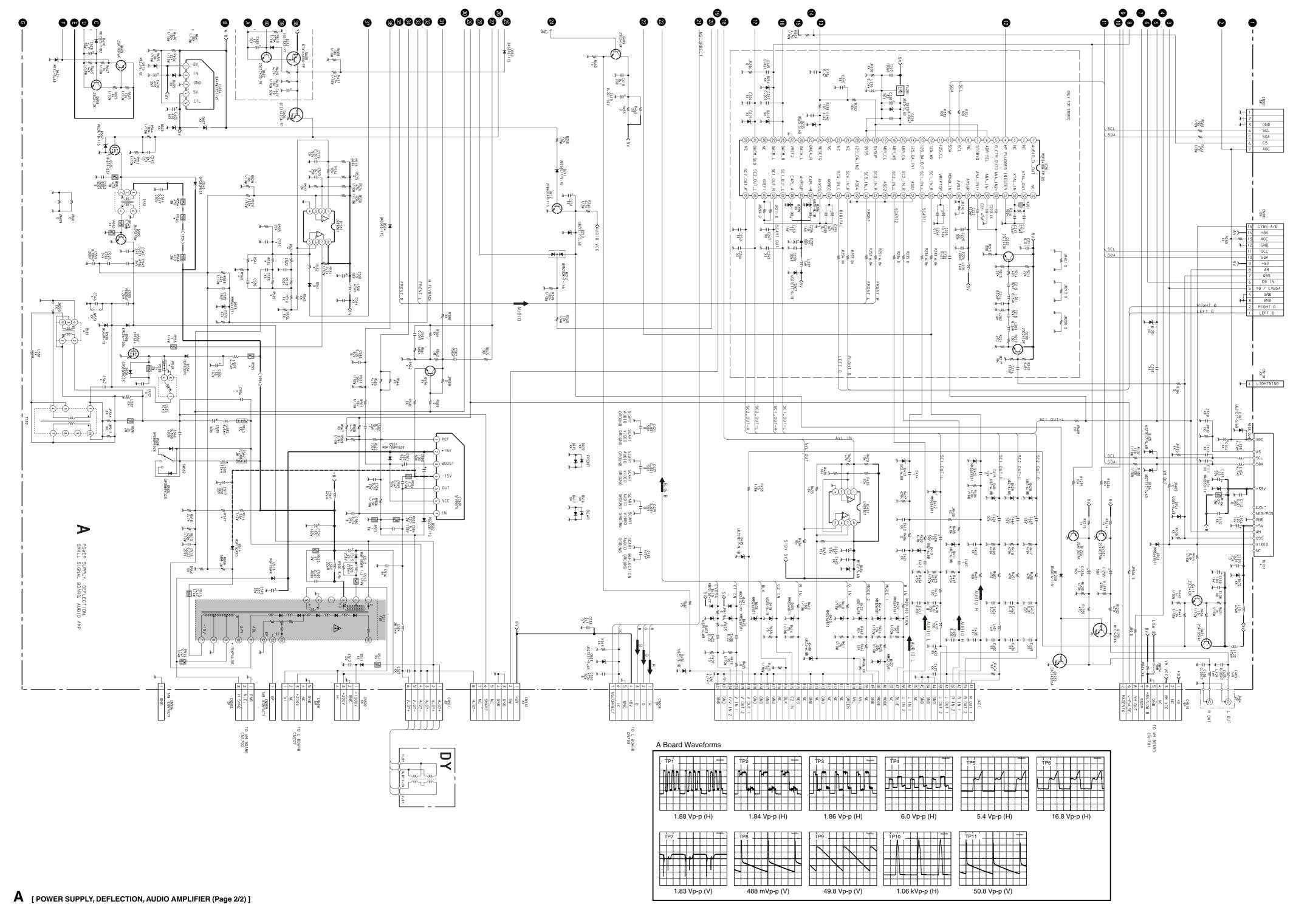
A [PRINTED WIRING BOARD]

Semiconductor Location Table

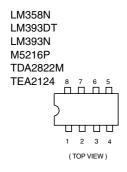
D	IODE	D013	M - 1	D103	E - 1	D236	D - 3	D411	C - 3	D424	M - 2	D505	M - 2	D538	E - 6	D612	G - 5	D625	H - 6	TRAN	SISTOR	Q532	D - 4	Q609	J - 6	IC004	H - 2
D001	l - 2	D016	J - 2	D104	E - 2	D239	D - 3	D412	D - 3	D427	A - 4	D506	D - 4	D539	B - 5	D613	J - 6	D627	K - 7	Q013	I - 3	Q533	A - 6	Q1210	H - 3	IC401	I - 3
D002	I - 3	D018	1 - 3	D105	A - 1	D402	E - 3	D413	C - 3	D428	C - 3	D507	M - 2	D541	F - 5	D614	K - 8	D628	L - 7	Q014	L - 1	Q535	B - 4	Q1211	H - 3	IC501	E - 10
D003	K - 2	D020	M - 8	D106	B - 1	D403	B - 2	D414	B - 2	D429	D - 3	D512	D - 8	D573	F - 5	D615	H - 5	D629	L - 7	Q049	J - 3	Q601	K - 5	Q1230	B - 3	IC531	F - 4
D004	M - 4	D021	L - 2	D107	B - 2	D404	I - 3	D418	B - 3	D435	A - 2	D513	D - 9	D601	I - 9	D618	H - 6	D631	L - 7	Q202	E - 3	Q602	G - 5	Q1231	B - 3	IC601	F - 10
D006	M - 8	D022	J - 2	D207	F - 3	D405	B - 2	D419	E - 2	D436	A - 2	D514	C - 9	D602	J - 5	D619	H - 6	D632	K - 5	Q203	F - 2	Q603	G - 5	Q1232	B - 3	IC602	F - 7
D007	K - 1	D035	K - 3	D210	I - 5	D406	B - 2	D420	B - 2	D501	D - 9	D534	E - 5	D604	F - 9	D620	M - 5	D633	L - 5	Q212	I - 5	Q604	H - 5	Q1233	C - 2	IC604	H - 5
D008	L - 3	D036	K - 3	D211	I - 5	D407	B - 2	D421	C - 2	D502	D - 9	D535	E - 6	D608	F - 8	D621	J - 5	D638	I - 6	Q401	C - 1	Q606	G - 10	IC	C'S	IC608	L - 5
D010	G- 2	D051	L - 3	D212	I - 5	D408	B - 2	D422	C - 2	D503	I - 2	D536	B - 6	D610	J - 5	D622	H - 7	D640	L - 5	Q409	G - 1	Q607	G - 9	IC001	K - 2	IC609	L - 6
D011	F - 2	D101	B - 1	D228	E - 4	D410	C - 2	D423	C - 2	D504	I - 2	D537	C - 4	D611	G - 5	D623	J - 5			Q411	D - 2	Q608	J - 6	IC002	M - 8	IC1201	H - 4



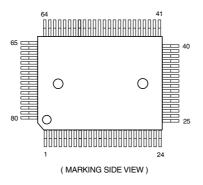
37



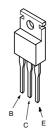
5-4. SEMICONDUCTORS



TDA9394H



IRF614-005 IRF614-037 IRF620

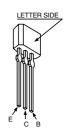


2SA933AS-QRT 2SAG33ASQT 2SA933AS-RT 2SC1740S-RT

MSP3410D-PP-B4

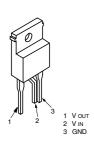


TOP209P



(TOP VIEW)

SE-135N SE135N-LF4



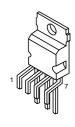
BF421-AMMO 2SA1091-O



2SC2785-HFE



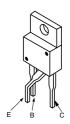
STV9379



DTA144ESA DTA144ESA-TP DTC114EKA-T146 DTC143TKA-T146 DTC144EKA-T-146R 2SA1037K-T-146-R R2SA1162-G 2SA1037AK-T-146-QR 2SD601A-QTX 2SC1623-L5-L6 2SC2412K-QR 2SC2412K-T-146-QR 2SC2412K-T-146-R



2SK2251-01-F19

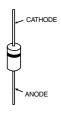


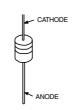
AK04-V1
AU-01Z-V1
BYD33G
BYD33G-AMMO
DINL20-TA
DINL20-U-TA2
DINL40-U-TR2
ERB44-06TP1
EGP20G
EG-1Z-V1
EL1Z
ERD28-06S

ERD28-06S
ERC06-15SL
FMN-G12S
GP08DPKG23
RGP10GPKG23
RG15GPKG23
RG1CLF-B1
RU-3AM
RU3YX-LF-C4
RU3YX-V1
RU-4AM-T3
1SS292T-77

ERA81-004TP1
ERA83-006
MTZJ-3.6A
MTZJ-T-77-2.2A
HZS9.INBZ
MTZJ-T-77-3.6B
MTZJ-T-77-4.7B
MTZJ-T-77-5.1B
MTZJ-T-77-5.6B
MTZJ-T-77-6.8A
MTZJ-T-77-8.2B
MTZJ-T-77-7.5B
MTZJ-T-77-9.1
MTZJ-T-77-9.1B
MTZJ-T-77-10

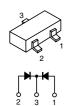
MTZJ-T-72-10A MTZJ-T-72-10B MTZJ-T-77-15B MTZJ-T-77-33A MTZJ-33C MTZJ-7.5B P6KE200ASY RD3.9ES-B2 RD7.5ESB2 RD9.1ES-B3 RD10ESB2 RD15ES-T1B2 1SS119-25TD 1SS133T-77

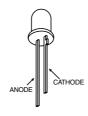




SLA-570KT3F

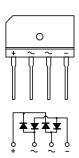
DAN202K DAN202K-T146 MA8330-TX

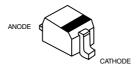




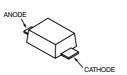
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D4SB60L-F



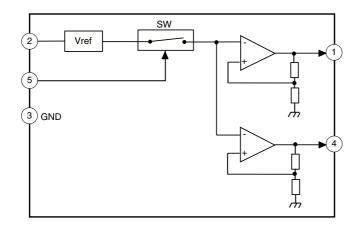


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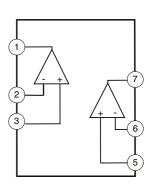


5-5 IC BLOCK DIAGRAMS

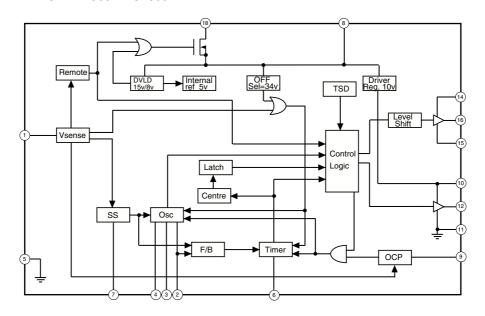
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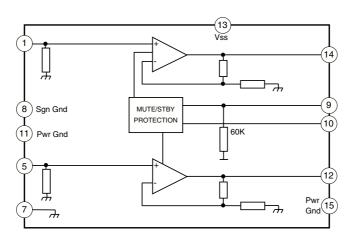
A BOARD IC401/IC531 LM393DT



A BOARD IC601 MCZ3001D



A BOARD IC1201 TDA7497



SECTION 6 EXPLODED VIEWS

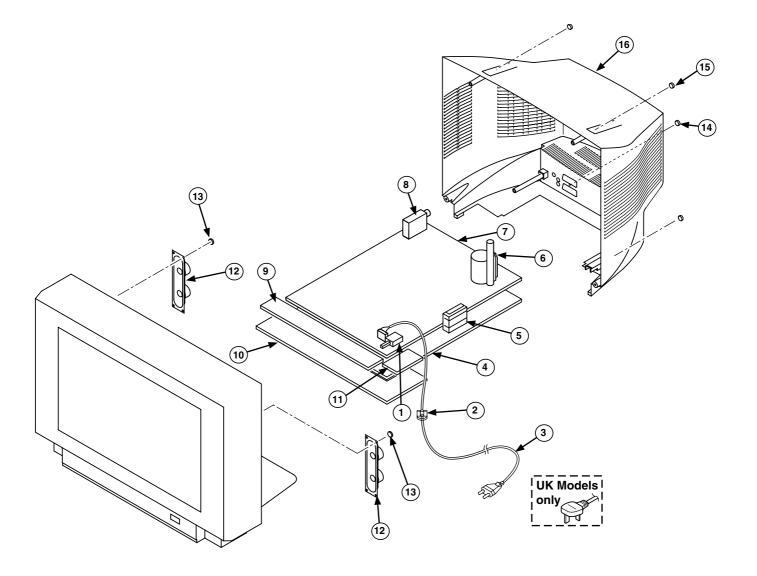
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

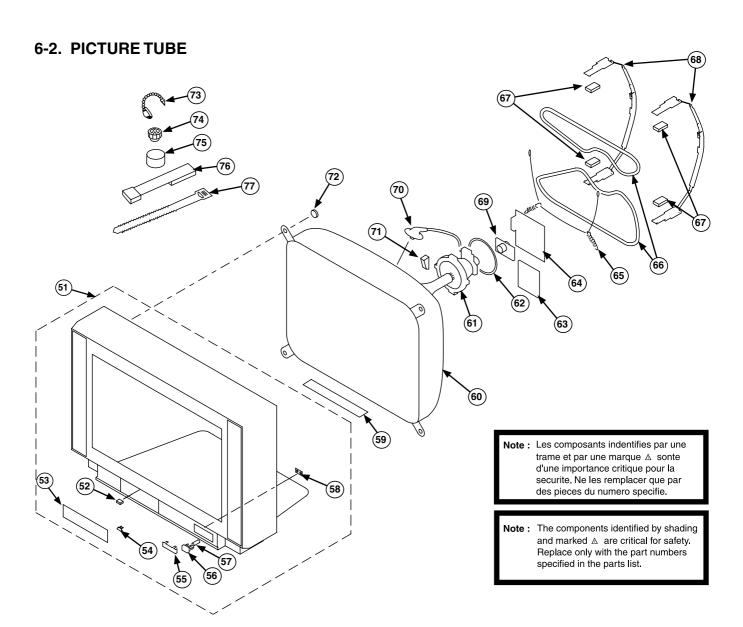
 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Note: Les composants indentifies par une trame et par une marque ∆ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

6-1. CHASSIS



REF.N	NO.	PART.NO	DESCRIPTION	REMARK	REF.NO. PART.NO		DESCRIPTION	REMARK	
1	Δ	1-571-433-31	SWITCH, PUSH (AC POWER)		8	8-598-535-10	FRONTEND (BTF-EF411)	(KV-25FX30B/29FX30B)	
2		*4-202-531-01	AC CORD LOCK (SC)			8-598-533-00	FRONTEND (BTF-EC411)	(KV-25FX30E/25FX30K	
3	Δ	1-783-083-11	CORD POWER (WITH FILTER)					KV-29FX30E/29FX30K)	
4		*4-204-773-04	BRACKET, MAIN		9	*A-1646-240-A	H1 BOARD, COMPLETE		
5		1-424-733-11	COIL, PFC CHOKE 65MMH		10	4-206-017-01	BRACKET F-H		
6	Δ	1-453-308-31	TRANSFORMER ASSY, FLYBAG	CK (NX4521//Z2B4)	11	*A-1624-098-A	F1 BOARD, COMPLETE		
7		*A-1632-937-A	A BOARD, COMPLETE (KV-25	5FX30B)	12	1-529-988-11	SPEAKER (4.2x24CM)		
		*A-1632-924-A	A BOARD, COMPLETE (KV-25	5FX30E/25FX30K)	13	4-058-870-01	SCREW, (4x16) W (+)	TAPPING	
		*A-1632-938-A	A BOARD, COMPLETE (KV-29	9FX30B)	14	7-685-663-79	SCREW +BVTP 4x16 TYPE	E 2 IT-3	
		*A-1632-923-A	A BOARD, COMPLETE (KV-29	9FX30E/29FX30K)	15	7-685-663-71	SCREW +BVTP 4x16 TYPE	E 2 IT-3	
					16	4-204-804-11	COVER, REAR (KV-25FX	30)	
						4-204-772-11	COVER, REAR (KV-29FX	30)	



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO		PART.NO	DESCRIPTION	REMARK
51	X-4200-716-1	BEZNET ASSY (KV-25FX30)	52-58	64		*A-1639-021-A	C BOARD, COMPLETE	1
	X-4200-715-1	BEZNET ASSY (KV-29FX30)	52-58	65		4-369-318-22	SPRING, TENSION	
52	4-072-192-02	CATCHER, PUSH		66	Δ	1-419-142-11	COIL, DEGAUSSING	(KV-25FX30)
53	4-204-770-31	DOOR, (PAINTED)			Δ	1-416-654-11	COIL, DEMAGNETIC	(KV-29FX30)
54	3-703-035-12	SHAFT LID		67		4-203-390-11	CUSHION, DGC	
55	4-204-730-21	WINDOW, ORNAMENTAL		68		*4-204-812-02	HOLDER, DGC (KV-2	25FX30)
56	4-204-777-21	BUTTON, POWER				*4-204-768-01	HOLDER, DGC (KV-2	9FX30)
57	4-204-426-01	SPRING		69		8-453-011-11	NECK ASSY, NA299N	1
58	4-204-785-01	GUIDE, LIGHT		70	Δ	1-251-537-22	CAP ASSY, HIGH VO	LTAGE
59	4-204-865-21	SHEET, BLOTTING		71		3-704-495-02	SPACER, DY	
60 △	8-753-250-05	PICTURE TUBE (A60LPN70X)	(KV-25FX30)	72		4-046-765-12	SCREW, TAPPING 7	+ CROWN WASHER
Δ	8-753-053-05	PICTURE TUBE (M68LNH060X	(KV-29FX30)	73		4-308-870-00	CLIP, LEAD WIRE	
61	1-451-475-11	DEFLECTION YOKE (Y25RSA)	(KV-25FX30)	74		1-452-094-11	MAGNET, ROTATABLE	DISK; 15MM Ø
	8-451-494-51	DEFLECTION YOKE (Y29RSA-	L) (KV-29FX30)	75		1-452-032-11	MAGNET, DISK; 10M	m ø
62	1-452-896-11	COIL, NA ROTATION (RT-20	0)	76		X-4387-214-1	PERMALLOY ASSY, O	CORRECTION
63	*A-1645-046-A	VM BOARD, COMPLETE (KV-2	5FX30)	77		3-701-007-00	BAND, BINDING	
	*A-1645-048-A	VM BOARD, COMPLETE (KV-2	9FX30)					

SECTION 7 ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

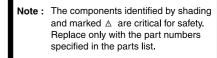
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Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*) Parts indicated (XX) on the Schematic Diagram are not used in this model and

therefore do not appear in the Parts List.



REF.NO. PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
*A-1624-098-A	F1 Board, Complete		C018		CERAMIC CHIP 0.01UF	10.00% 25V
			C019	1-162-919-91		5.00% 50V
*4-374-846	-01 COVER, CAPACITOR, CAP T	TYPE	C020		CERAMIC CHIP 0.1UF	10.00% 25V
			C021	1-163-037-91	CERAMIC CHIP 0.022UF	10.00% 50V
< CAP	ACITOR >		C022	1-126-935-91	ELECT 470UF	20.00% 10V
601 1-113-924	-51 CERAMIC 0.0047UF	20.00% 250V	C025	1-126-935-91	ELECT 470UF	20.00% 16V
			C026	1-162-970-91	CERAMIC CHIP 0.01UF	10.00% 25V
< CON	NECTOR >		C027	1-164-004-91	CERAMIC CHIP 0.1UF	10.00% 25V
			C028	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V
6601 *1-580-844	-11 PIN, CONNECTOR (POWER)		C030	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V
602 1-695-915	-21 TAB (CONTACT)					
603 *1-695-292	-11 PIN, CONNECTOR (POWER)		C033	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V
			C035	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V
< FUS	E >		C036	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V
			C037	1-136-244-11		2.00% 50V
	-31 FUSE (H.B.C.) 5A/250V -11 HOLDER, FUSE (F6601)		C038		CERAMIC CHIP 0.1UF	25V
	, , , , , , , , , , , , , , , , , , , ,		C039	1-164-505-91	CERAMIC CHIP 2.2UF	16V
< RES	ISTOR >		C040		CERAMIC CHIP 0.0047UF	10.00% 50V
			C042		CERAMIC CHIP 0.0047UF	5.00% 50V
501 1-202-719	-91 SOLID 1M 10%	k 1/2₩	C042		CERAMIC CHIP 0.00270F	10.00% 50V
1 202 719	71 0021D III 100	. 1/2H	C044		CERAMIC CHIP 1UF	16V
< SWI	TCH >		C044	1-104-340-31	CERAMIC CHIP IOF	104
			C045	1-164-489-91	CERAMIC CHIP 0.22UF	10.00% 16V
501	-21 SWITCH, PUSH (AC POWER)		C046	1-163-037-91	CERAMIC CHIP 0.022UF	10.00% 50V
			C047	1-126-935-91	ELECT 470UF	20.00% 16V
< VAR	ISTOR >		C053	1-164-004-91	CERAMIC CHIP 0.1UF	10.00% 25V
			C055	1-126-960-91	ELECT 1UF	20.00% 50V
R6601 1-803-830	-31 VARISTOR (ERZV14D621)					
			C100	1-126-933-91	ELECT 100UF	20.00% 16V
A-1632-937-A	A Board, Complete (K		C103	1-126-965-91	ELECT 22UF	20.00% 50V
A-1632-924-A	A Board, Complete (K		C105	1 160 070 01	CERAMIC CHIP 0.01UF	10.00% 25V
		V OFEVOOV)	C103	1-102-970-91		
1622-028-A		V-25FX30K)	C105	1-126-933-91	ELECT 100UF	20.00% 16V
	A Board, Complete (K' A Board, Complete (K'	V-29FX30B) V-29FX30E/		1-126-933-91	ELECT 100UF CERAMIC CHIP 0.01UF	20.00% 16V 10.00% 25V
	A Board, Complete (K' A Board, Complete (K'	V-29FX30B)	C106	1-126-933-91 1-162-970-91		
A-1632-923-A	A Board, Complete (K A Board, Complete (K K	V-29FX30B) V-29FX30E/	C106 C112	1-126-933-91 1-162-970-91 1-162-970-91	CERAMIC CHIP 0.01UF	10.00% 25V
A-1632-923-A	A Board, Complete (K A Board, Complete (K K	V-29FX30B) V-29FX30E/	C106 C112	1-126-933-91 1-162-970-91 1-162-970-91 1-163-249-91	CERAMIC CHIP 0.01UF	10.00% 25V 10.00% 25V
A-1632-923-A A Board, Commo	A Board, Complete (K A Board, Complete (K K	V-29FX30B) V-29FX30E/	C106 C112 C211 C213	1-126-933-91 1-162-970-91 1-162-970-91 1-163-249-91 1-163-139-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF	10.00% 25V 10.00% 25V 5.00% 50V
A-1632-923-A A Board, Commo 1-900-903 4-382-854	A Board, Complete (K' A Board, Complete (K' K On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+)	V-29FX30B) V-29FX30E/ V-29FX30K)	C106 C112 C211 C213 C214	1-126-933-91 1-162-970-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-084-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V
A-1632-923-A A Board, Commo 1-900-903 4-382-854	A Board, Complete (K' A Board, Complete (K' K on Parts -72 LEAD ASSY, FOCUS	V-29FX30B) V-29FX30E/ V-29FX30K)	C106 C112 C211 C213 C214 C215	1-126-933-91 1-162-970-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-084-91 1-163-117-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854	A Board, Complete (K' A Board, Complete (K' K Con Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+)	V-29FX30B) V-29FX30E/ V-29FX30K)	C106 C112 C211 C213 C214 C215 C216	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-084-91 1-163-084-91 1-163-084-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854	A Board, Complete (K' A Board, Complete (K' K On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+)	V-29FX30B) V-29FX30E/ V-29FX30K)	C106 C112 C211 C213 C214 C215 C216	1-126-933-91 1-162-970-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-117-91 1-163-084-91 1-163-084-91 1-163-249-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 1.5PF CERAMIC CHIP 1.5PF CERAMIC CHIP 82PF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 0.25PF 50V 5.00% 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854	A Board, Complete (K' A Board, Complete (K' K On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) ACITOR >	V-29FX30B) V-29FX30E/ V-29FX30K)	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-117-91 1-163-084-91 1-163-249-91 1-163-249-91 1-163-109-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 1.5PF CERAMIC CHIP 1.5PF CERAMIC CHIP 82PF CERAMIC CHIP 47PF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 0.25PF 50V 5.00% 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854 < CAP	A Board, Complete (K' A Board, Complete (K' K' On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) -01 CERAMIC CHIP 18PF	V-29FX30B) V-29FX30E/ V-29FX30K)	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221 C222	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-084-91 1-163-117-91 1-163-249-91 1-163-109-91 1-163-117-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 1.5PF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854 < CAP 02 1-163-233 04 1-163-037	A Board, Complete (K' A Board, Complete (K' K' On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) ACITOR > -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.022UF	V-29FX30B) V-29FX30E/ V-29FX30K) 5.00% 50V 10.00% 50V	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-117-91 1-163-084-91 1-163-249-91 1-163-249-91 1-163-109-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 1.5PF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 0.25PF 50V 5.00% 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854 < CAP 02 1-163-233 04 1-163-037 05 1-126-935	A Board, Complete (K' A Board, Complete (K' A Board, Complete (K' K' A Board, Cult (M3X8), P, SW (+) A SCREW (M3X8), P, SW (+) A CITOR > -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.022UF -91 ELECT 470UF	V-29FX30B) V-29FX30E/ V-29FX30K) 5.00% 50V 10.00% 50V 20.00% 10V	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221 C222 C223	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-117-91 1-163-084-91 1-163-249-91 1-163-117-91 1-163-117-91 1-163-117-91 1-126-965-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 1.5PF CERAMIC CHIP 82PF CERAMIC CHIP 47PF CERAMIC CHIP 100PF ELECT 22UF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854 < CAP 02 1-163-233 04 1-163-037 05 1-126-935 06 1-163-233	A Board, Complete (K' A Board, Complete (K' A Board, Complete (K' K' K' A Board, Complete (K' K' A Board, Complete (K' K' A Board, Complete (K' K' K' K' A Board, Complete (K' K' K' K' A Board, Complete (K' K' K	V-29FX30B) V-29FX30E/ V-29FX30K) 5.00% 50V 10.00% 50V 20.00% 10V 5.00% 50V	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221 C222 C223 C224	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-117-91 1-163-084-91 1-163-249-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 1.5PF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854 < CAP 02 1-163-233 04 1-163-037 05 1-126-935 06 1-163-233	A Board, Complete (K' A Board, Complete (K' A Board, Complete (K' K' A Board, Cult (M3X8), P, SW (+) A SCREW (M3X8), P, SW (+) A CITOR > -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.022UF -91 ELECT 470UF	V-29FX30B) V-29FX30E/ V-29FX30K) 5.00% 50V 10.00% 50V 20.00% 10V	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221 C222 C223 C224 C225	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-084-91 1-163-117-91 1-163-249-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-126-965-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 1.5PF CERAMIC CHIP 47PF CERAMIC CHIP 47PF CERAMIC CHIP 100PF ELECT 22UF CERAMIC CHIP 100PF ELECT 10UF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V 20.00% 50V
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A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854 < CAP 02 1-163-233 04 1-163-037 05 1-126-935 06 1-163-233 09 1-164-004 10 1-164-005 11 1-163-005 12 1-126-963 13 1-162-970	A Board, Complete (K A Board, Complete (K A Board, Complete (K K On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) ACITOR > -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.022UF -91 ELECT 470UF -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.1UF -91 CERAMIC CHIP 0.1UF -91 CERAMIC CHIP 0.47UF -91 CERAMIC CHIP 470PF -91 ELECT 4.7UF -91 CERAMIC CHIP 0.01UF	V-29FX30B) V-29FX30E/ V-29FX30K) 5.00% 50V 10.00% 50V 20.00% 10V 5.00% 50V 10.00% 25V 16V 10.00% 50V 20.00% 50V 10.00% 25V	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221 C222 C223 C224 C225 C226 C227 C228 C229	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-084-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-126-965-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-17-91 1-163-17-91 1-163-17-91 1-163-17-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 47PF CERAMIC CHIP 100PF ELECT 22UF CERAMIC CHIP 100PF ELECT 10UF CERAMIC CHIP 0.1UF CERAMIC CHIP 100PF ELECT 22UF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 5.00% 50V 5.00% 50V 20.00% 50V 20.00% 50V 20.00% 50V 10.00% 50V
A-1632-923-A Board, Commo 1-900-903 4-382-854 4-382-854 < CAP 02 1-163-233 04 1-163-037 05 1-126-935 06 1-163-233 09 1-164-004 10 1-164-005 11 1-163-005 12 1-126-963 13 1-162-970	A Board, Complete (K A Board, Complete (K A Board, Complete (K K On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) ACITOR > -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.022UF -91 ELECT 470UF -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.1UF -91 CERAMIC CHIP 0.1UF -91 CERAMIC CHIP 0.47UF -91 CERAMIC CHIP 470PF -91 ELECT 4.7UF	V-29FX30B) V-29FX30E/ V-29FX30K) 5.00% 50V 10.00% 50V 20.00% 10V 5.00% 50V 10.00% 25V 16V 10.00% 50V 20.00% 50V	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221 C222 C223 C224 C225 C226 C227 C228 C229 C230	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-084-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-126-965-91 1-164-004-91 1-163-117-91 1-126-965-91 1-163-17-91 1-163-17-91 1-163-17-91 1-164-336-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 10PF CERAMIC CHIP 10PF CERAMIC CHIP 47PF CERAMIC CHIP 10PF ELECT 22UF CERAMIC CHIP 10UF CERAMIC CHIP 10UF ELECT 10UF CERAMIC CHIP 0.1UF CERAMIC CHIP 10PF ELECT 22UF CERAMIC CHIP 100PF ELECT 22UF CERAMIC CHIP 100PF ELECT 10UF CERAMIC CHIP 100PF ELECT 22UF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 5.00% 50V 5.00% 50V 20.00% 50V 20.00% 50V 20.00% 50V 20.00% 50V 10.00% 50V 25V
A-1632-923-A A Board, Commo 1-900-903 4-382-854 4-382-854 < CAP 002 1-163-233 104 1-163-233 1-164-004 010 1-164-005 011 1-163-005 012 1-126-963 013 1-162-970 014	A Board, Complete (K) A Board, Complete (K) A Board, Complete (K) On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) ACITOR > -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.022UF -91 ELECT 470UF -91 CERAMIC CHIP 0.1UF -91 CERAMIC CHIP 0.1UF -91 CERAMIC CHIP 0.47UF -91 CERAMIC CHIP 470PF -91 CERAMIC CHIP 0.01UF -91 CERAMIC CHIP 0.01UF -91 CERAMIC CHIP 0.01UF	5.00% 50V 10.00% 50V 20.00% 10V 5.00% 50V 10.00% 25V 16V 10.00% 50V 20.00% 50V 10.00% 25V	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221 C222 C223 C224 C225 C226 C227 C228 C229 C230 C232	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-084-91 1-163-117-91 1-163-109-91 1-163-117-91 1-163-117-91 1-163-117-91 1-126-965-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-965-91 1-163-017-91 1-164-336-91 1-126-157-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 1.5PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 47PF CERAMIC CHIP 100PF ELECT 22UF CERAMIC CHIP 10UF CERAMIC CHIP 10UF CERAMIC CHIP 0.1UF CERAMIC CHIP 10UF CERAMIC CHIP 10UF CERAMIC CHIP 10UF CERAMIC CHIP 10UF CERAMIC CHIP 0.1UF CERAMIC CHIP 10UF CERAMIC CHIP 0.33UF CERAMIC CHIP 0.33UF ELECT 10UF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 5.00% 50V 20.00% 50V 20.00% 50V 20.00% 16V 10.00% 25V 5.00% 50V 20.00% 50V 20.00% 50V
4-382-854 4-382-854 < CAP 002	A Board, Complete (K A Board, Complete (K A Board, Complete (K K On Parts -72 LEAD ASSY, FOCUS -01 SCREW (M3X8), P, SW (+) -01 SCREW (M3X8), P, SW (+) ACITOR > -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.022UF -91 ELECT 470UF -91 CERAMIC CHIP 18PF -91 CERAMIC CHIP 0.1UF -91 CERAMIC CHIP 0.1UF -91 CERAMIC CHIP 0.47UF -91 CERAMIC CHIP 470PF -91 ELECT 4.7UF -91 CERAMIC CHIP 0.01UF	V-29FX30B) V-29FX30E/ V-29FX30K) 5.00% 50V 10.00% 50V 20.00% 10V 5.00% 50V 10.00% 25V 16V 10.00% 50V 20.00% 50V 10.00% 25V	C106 C112 C211 C213 C214 C215 C216 C217 C218 C221 C222 C223 C224 C225 C226 C227 C228 C229 C230	1-126-933-91 1-162-970-91 1-163-249-91 1-163-139-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-163-117-91 1-126-965-91 1-163-117-91 1-126-157-91 1-163-117-91 1-163-117-91 1-163-117-91 1-164-004-91 1-164-336-91 1-164-336-91 1-164-004-91	CERAMIC CHIP 0.01UF CERAMIC CHIP 0.01UF CERAMIC CHIP 82PF CERAMIC CHIP 820PF CERAMIC CHIP 1.5PF CERAMIC CHIP 100PF CERAMIC CHIP 10PF CERAMIC CHIP 10PF CERAMIC CHIP 47PF CERAMIC CHIP 10PF ELECT 22UF CERAMIC CHIP 10UF CERAMIC CHIP 10UF ELECT 10UF CERAMIC CHIP 0.1UF CERAMIC CHIP 10PF ELECT 22UF CERAMIC CHIP 100PF ELECT 22UF CERAMIC CHIP 100PF ELECT 10UF CERAMIC CHIP 100PF ELECT 22UF	10.00% 25V 10.00% 25V 5.00% 50V 5.00% 50V 0.25PF 50V 5.00% 50V 5.00% 50V 5.00% 50V 5.00% 50V 20.00% 50V 20.00% 16V 10.00% 25V 5.00% 50V 20.00% 50V 10.00% 50V





REF.NO.	PART.NO	DESCRIPTIO	N	REN	MARK	REF.NO.	Р	ART.NO	DESCRIPTION	1	REI	MARK
	-											
C235		CERAMIC CHIP		•• •••	25V	C519			CERAMIC CHIP		5.00%	
C236	1-126-157-91	ELECT	10UF	20.00%		C520		-163-038-91	CERAMIC CHIP			25V
C237	1-126-965-91	ELECT	22UF	20.00%		C522		-130-495-91	MYLAR	0.1UF	5.00%	
C238	1-163-117-91			5.00%		C525				33UF		160V
C239	1-126-157-91	ELECT	10UF	20.00%	16V	C531	1	-126-964-91	ELECT	10UF	20.00%	50V
C242	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V	C535	1	-163-233-91	CERAMIC CHIP	18PF	5.00%	50V
C245	1-163-009-91	CERAMIC CHIP		10.00%		C538			CERAMIC CHIP			50V
C401	1-126-964-91		10UF	20.00%		C539	_	-111-230-91	ELECT	1UF	20.00%	
C404		CERAMIC CHIP		10.00%		C540		-137-051-91		0.033UF	10.00%	
C405		CERAMIC CHIP		10.00%		C541		-106-383-91		0.047UF	10.00%	
		V V	******			****	_					
C407	1-164-346-91	CERAMIC CHIP	1UF		16V	C542	1	-161-754-61	CERAMIC	0.001UF	10.00%	2KV
C408	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V	C543	1	-162-134-51	CERAMIC	470PF	10.00%	2KV
C409	1-126-964-91	ELECT	10UF	20.00%	50V	C545	1	-164-004-91	CERAMIC CHIP	0.1UF	10.00%	25V
C410	1-162-970-91	CERAMIC CHIP	0.01UF	10.00%	25V	C548	1	-162-134-51	CERAMIC	470PF	10.00%	2KV
C411	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V	C550	1	-107-638-91	ELECT	33UF	20.00%	160V
0410	1 164 246 01	CEDAUTO CUTS	1110		160	CEEO		100 010 01	CEDANTO	0200=	10 000	E0017
C412	1-164-346-91				16V	C552	_	-102-212-91		820PF	10.00%	
C414	1-164-346-91	CERAMIC CHIP			16V	C553	_	-137-417-91		0.0047UF	10.00%	
C415		CERAMIC CHIP			16V	C555		-127-717-11		19000PF	3%	1.2KV
C416	1-126-964-91		10UF	20.00%		C570		-126-961-91		2.2UF	20.00%	
C417	1-162-970-91	CERAMIC CHIP	0.01UF	10.00%	25V	C580	1	-162-970-91	CERAMIC CHIP	0.01UF	10.00%	25V
C418	1-164-004-91	CERAMIC CHIP	0.1UF	10.00%	25V	C582	1	-163-255-91	CERAMIC CHIP	150PF	5.00%	50V
C419	1-162-964-91			10.00%	-	C583			CERAMIC CHIP		10.00%	
C423		CERAMIC CHIP		10%	16V	C600		-119-888-51		2200PF	20.00%	
C424		CERAMIC CHIP		10.00%		C601		-136-516-12		0.1UF	20.00%	
C426		CERAMIC CHIP		10.00%				-136-516-12		0.1UF	20.00%	
0.20		02.12.12	V.VV202	-0.000		0002		100 010 11		V.1201	20.000	
C427	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V	C603	△ 1	-119-889-51	CERAMIC	1000PF	10.00%	250V
C428	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V	C604	△ 1	-119-889-51	CERAMIC	1000PF	10.00%	250V
C429	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V	C605	1	-126-935-91	ELECT	470UF	20.00%	16V
C430	1-102-114-91	CERAMIC	470PF	10.00%	50V	C606	1	-117-751-11	ELECT (BLOCK)	220UF	20.00%	450V
C435	1-163-017-91	CERAMIC CHIP	0.0047UF	10.00%	50V	C607	1	-126-964-91	ELECT	10UF	20.00%	50V
0406	1 160 017 01	0001VT0 00T0	0 0047	10.000	F A++	0600		106 062 01		4 700	00 000	F.A**
C436	1-163-017-91			10.00%		C608		-126-963-91		4.7UF	20.00%	
C437		CERAMIC CHIP			16V	C610		-126-941-91		470UF	20.00%	
C438		CERAMIC CHIP		00 000	16V	C611			CERAMIC CHIP		10.00%	
C445	1-126-964-91		10UF	20.00%		C612		-104-571-91		0.0015UF	10.00%	
C446	1-126-964-91	ELECT	10UF	20.00%	50V	C613	1	-104-571-91	CERAMIC	0.0015UF	10.00%	2KV
C447	1-162-970-91	CERAMIC CHIP	0.01UF	10.00%	25V	C614	1	-161-964-51	CERAMIC	0.0047UF		250V
C449	1-127-715-91			10%	16V	C615			CERAMIC CHIP		10.00%	
C501	1-126-968-91		100UF	20.00%		C616		-165-127-91		470PF	10.00%	
C502	1-163-038-91				25V	C617		-165-127-91		470PF	10.00%	
C503	1-115-832-91		100UF	20.00%		C618		-126-949-91		220UF	20.00%	
C504	1-106-220-91		0.1UF	10.00%		C619		-164-644-51		330PF	10.00%	
C505	1-137-194-81		0.47UF	5.00%		C620		-137-990-21		33000PF	3%	
C506		CERAMIC CHIP		10.00%		C621		-164-644-51		330PF	10.00%	
C508	1-163-035-91			44	50V	C622		-104-571-91		0.0015UF	10.00%	
C509	1-107-364-81	MYLAR	0.01UF	10.00%	400V	C623	1	-104-571-91	CERAMIC	0.0015UF	10.00%	2KV
C510	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	C624	1	-126-935-91	ELECT	470UF	20.00%	16V
C513	1-107-662-91		22UF	20.00%		C626		-126-967-91		47UF	20.00%	
C515	1-104-666-91		220UF	20.00%		C627		-126-964-91		10UF	20.00%	
C517	1-115-781-91		220UF	20.00%		C628		-126-963-91 -126-963-91		4.7UF	20.00%	
C517	1-115-761-91		0.022UF	10.00%		C629		-120-903-91 -165-127-91		4.70F 470PF	10.00%	
C310	1-100-3/3-01	TILL	U.UZZU£	±0.008	2304	C023	1	107-171-31	CERMIT	11011	±0.008	J00V



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C630	1-107-641-41	ELECT 220UF	20.00% 160V	CN1200	*1-564-509-51	PLUG, CONNECTOR 6P	
C631	1-126-942-91	ELECT 1000UF	20.00% 25V	CN1201	*1-564-507-51	PLUG, CONNECTOR 4P	
C632	1-126-964-91	ELECT 10UF	20.00% 50V				
C633	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V		< DIODE :	>	
C634	1-128-562-91	ELECT 47UF	20.00% 100V				
				D001	8-719-069-55	DIODE UDZSTE-175.6B	
C635	1-136-165-81	FILM 0.1UF	5.00% 50V	D002	8-719-069-55	DIODE UDZSTE-175.6B	
C636	1-136-479-41	FILM 0.001UF	2.00% 50V	D003	8-719-109-69	DIODE RD3.6ES-B2	
C637	1-126-967-91	ELECT 47UF	20.00% 50V	D005	8-719-929-15	DIODE HZS9.1NB2	
C638	1-107-679-91	ELECT 10UF	20.00% 450V	D006	8-719-109-89	DIODE RD5.6ESB2	
C639	1-104-665-91	ELECT 100UF	20.00% 25V				
				D007		DIODE UDZSTE-175.6B	
C640	1-104-664-91		20.00% 25V	D008		DIODE BAS316-115	
C641	1-115-785-91		20.00% 16V	D010		DIODE BAS316-115	
C642	1-104-665-91		20.00% 25V	D011		DIODE BAS316-115	
C643	1-165-127-91		10.00% 500V	D012	8-719-929-15	DIODE HZS9.1NB2	
C645	1-164-004-91	CERAMIC CHIP 0.1UF	10.00% 25V				
-4				D013		DIODE RD3.6ES-B2	
C648	1-125-782-91		10.00% 1KV	D014	1-216-295-11		
C649		CERAMIC CHIP 0.1UF	25V	D016		DIODE RD5.6ESB2	
C657	1-126-952-91		20.00% 35V	D018		DIODE HZS9.1NB2	
C1201	1-126-972-51		20.00% 50V	D019	8-719-069-57	DIODE UDZ-TE-17-6.8B	
C1203	1-535-143-61	LEAD, JUMPER (5.0MM)					
~1.00=			00 000 50	D021		DIODE DTZ-TT11-6.8B	
C1207	1-126-960-91		20.00% 50V	D022		DIODE UDZSTE-175.6B	
C1209		CERAMIC CHIP 0.022UF	50V	D035		DIODE UDZSTE-175.6B	
C1210	1-126-960-91		20.00% 50V	D036		DIODE UDZSTE-175.6B	
C1211		CERAMIC CHIP 0.022UF	50V	D051	8-719-081-98	DIODE MM3Z6V8T1	
C1213	1-164-004-91	CERAMIC CHIP 0.1UF	10.00% 25V	5101	0 710 077 01	DIODE DEGICO	
01015	1 106 050 01	ETEOM 1000UE	20 000 257	D101 D103		DIODE DTZ33B	
C1215 C1218	1-126-952-91	ELECT 1000UF CERAMIC CHIP 1UF	20.00% 35V 10.00% 10V	D103		DIODE MM3Z6V8T1 DIODE UDZSTE-175.6B	
C1218	1-109-982-91		10.00% 10V 20.00% 25V	D104 D105		DIODE UDZSTE-175.6B	
C1219		CERAMIC CHIP 0.1UF	10.00% 50V	D105		DIODE UDZSTE-175.6B	
C1221	1-115-339-91		20.00% 35V	100	0-719-009-33	DIODE 0D231E-173.0B	
CIZZO	1-120-952-91	EBECI 10000F	20.00% 334	D107	8-719-069-55	DIODE UDZSTE-175.6B	
C1229	1_163_001_01	CERAMIC CHIP 220PF	10.00% 50V	D207		DIODE UDZSTE-179.1B	
C1230		CERAMIC CHIP 220PF	10.00% 50V	D210		DIODE UDZSTE-175.6B	
C1235	1-126-960-91		20.00% 50V	D210		DIODE UDZSTE-179.1B	
C1236	1-126-960-91		20.00% 50V	D212		DIODE DAN202K	
02200	1 110 700 71	22201	20.000	7	0 /25 521 10		
	< CONNECT	OR >		D228	8-719-069-55	DIODE UDZSTE-175.6B	
				D235		DIODE UDZSTE-175.6B	
CN001	*1-564-508-51	PLUG, CONNECTOR 5P		D236		DIODE UDZSTE-179.1B	
CN003		PLUG, CONNECTOR 7P		D401		DIODE DTZ-TT11-6.8B	
CN405		PLUG, CONNECTOR 7P		D402	8-719-081-98	DIODE MM3Z6V8T1	
CN406		PLUG, CONNECTOR 8P					
CN501		CONNECTOR PIN (DY)		D403	8-719-978-33	DIODE DTZ-TT11-6.8B	
				D404	8-719-109-89	DIODE RD5.6ESB2	
CN503	*1-564-506-51	PLUG, CONNECTOR 3P		D405	8-719-081-98	DIODE MM3Z6V8T1	
CN506		TAB (CONTACT)		D406	8-719-081-98	DIODE MM3Z6V8T1	
CN508	*1-564-508-11	PLUG, CONNECTOR 5P		D407	8-719-081-98	DIODE MM3Z6V8T1	
CN509	1-695-915-21	TAB (CONTACT)					
CN510		PLUG (MICRO CONNECTOR)	9P	D408	8-719-978-33	DIODE DTZ-TT11-6.8B	
				D410	8-719-978-33	DIODE DTZ-TT11-6.8B	
CN602	1-508-765-13	PIN, CONNECTOR (5MM PI	TCH) 3P	D411	8-719-978-33	DIODE DTZ-TT11-6.8B	
CN603		PIN, CONNECTOR (5MM PI	•	D412	8-719-081-98	DIODE MM3Z6V8T1	
CN605	*1-691-960-11	PIN, CONNECTOR (PC BOA	RD) 3P	D413	8-719-978-33	DIODE DTZ-TT11-6.8B	
CN606	*1-695-292-11	PIN, CONNECTOR (POWER)					
		•		I			



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION		REMARK
D414		DIODE MM3Z6V8T1		D629		DIODE FUF4005		
D414 D418		DIODE UDZSTE-179.1B		D631		DIODE MTZJ-7.5	R	
D410 D419		DIODE RB7210		D632		DIODE D1NL20U	טי	
D419 D420		DIODE MM3Z6V8T1		D632		DIODE RD3.6ES-	פת	
D421	8-719-049-26	DIODE RB721Q		D638	8-719-083-92	DIODE YG802C09	RF122	
D422	8-719-978-33	DIODE DTZ-TT11-6.8B		D640	8-719-921-63	DIODE MTZJ-7.5	В	
D423	8-719-081-98	DIODE MM3Z6V8T1		D649	8-719-056-83	DIODE UDZ-TE-1	7-6.8B	
D424	8-719-069-60	DIODE UDZSTE-179.1B		D1204	8-719-069-55	DIODE UDZSTE-1	.75.6B	
D427	8-719-082-01	DIODE MM3Z12VT1		D1205	8-719-081-90	DIODE PDZ22B-1	15	
D428	8-719-978-33	DIODE DTZ-TT11-6.8B		D1230	8-719-074-43	DIODE BAS316-1	15	
D429	8-719-978-33	DIODE DTZ-TT11-6.8B			< FERRITE	BEAD >		
D435	8-719-069-60	DIODE UDZSTE-179.1B						
D436		DIODE UDZSTE-179.1B		FB601	1-410-397-31	FERRITE	1.1UH	
D501		DIODE EGP20G		FB602	1-410-397-31		1.1UH	
D501		DIODE PDZ22B-115		FB604	1-410-397-31		1.1UH	
D302	0-719-001-90	DIODE PD6228-113						
DEAG	0 710 000 55	DIODE UDICOME 175 CD		FB605	1-410-397-31		1.1UH	
D503		DIODE UDZSTE-175.6B		FB606	1-412-911-21	FERRITE	OUH	
D504		DIODE BAS316-115						
D506	8-719-908-03			FB607	1-412-911-21	FERRITE	OUH	
D507		DIODE PDZ6.8B-115						
D512	8-719-302-43	DIODE EL1Z			< FILTER	>		
D513	8-719-979-85	DIODE EGP20G		FL201	1-239-803-21	FILTER, EMI		
D514	8-719-979-85	DIODE EGP20G						
D534	8-719-302-43	DIODE EL1Z			< IC >			
D535	8-719-908-03	DIODE GP08D						
D536	8-719-945-80	DIODE ERC06-15S		IC001	6-800-338-01	IC TDA9394H/N1	/4/0334	
				IC004	8-759-575-72	IC M24C08-WMN6	T	
D537	8-719-070-62	DIODE PDZ9.1B-115		IC201	6-700-373-01	IC MSP3410G-PF	-B9	
D538	8-719-908-03	DIODE GPO8D		IC401	8-759-665-11	IC LM393DT		
D539		DIODE RU4AM-T3		IC501	8-759-192-71			
D540	8-719-908-03			10301	0 733 132 71	10 0113373		
D541	1-216-295-91			IC531	8-759-665-11	TC T.M3Q3DT		
D341	1 210 255 51	DHORL		IC601	8-759-670-30			
D573	0 710 002 00	DIODE MM3Z4V7T1		IC601		IC SE135N-LF4		
							·E	
D601		DIODE 199110 25		IC604		IC BA41W12ST-V		
D602		DIODE ISS119-25		IC608	0-139-391-02	IC L78L33ABZ-A	ır	
D604		DIODE FUF4005		TOCAL	0 750 460 60	TG MCD000		
D608	8-119-063-70	DIODE D1NL20U		IC609	8-759-468-89			
2012	0 840 440 4			IC1201	8-759-831-57	IC TDA7495S		
D610		DIODE RD15ES-B2						
D611		DIODE 1SS133T-77			< JACK >			
D612		DIODE 1SS133T-77						
D613	8-719-911-19	DIODE 1SS119-25		J401	1-766-296-21	CONNECTOR, DUA	L SCART	
D614	8-719-077-76	DIODE D2SB60A-F04		J404	1-784-632-11	JACK, PIN 2P		
D615	8-719-929-15	DIODE HZS9.1NB2			< COIL >			
D618	8-719-022-97	DIODE D2S4MF						
D619		DIODE D2S4MF		L001	1-408-611-21	INDUCTOR	47UH	
D620		DIODE RD5.1ESB2		L002	1-414-938-21		47UH	
D621		DIODE RD5.6ESB2		L004	1-408-611-21		47UH	
5021	5 ,15 105 05	100, VEUDE		L004	1-408-611-21		47UH	
D623	0_710_011 10	DIODE 1SS119-25		L006	1-216-295-91		0	
				TOSI	1-710-730-31	SHORI	U	
D624		DIODE D1NL20U		7101	1 410 500 41	TAIDHAMAD	47:::-	
D625		DIODE D4SBL20UF1		L101	1-412-533-41		47UH	
D627		DIODE D1NL20U		L102	1-408-611-21		47UH	
D628	8-719-083-49	DIODE P6KE200ASY		L103	1-412-002-41	INDUCTOR	4.7UH	

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.



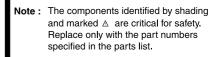
104	PART.NO	DESCRIPTION		REMARK	REF.NO.	PART.NO	DESCRIPTI	ON	REMARK
	1-412-002-41	INDUCTOR	4.7UH		Q533	8-729-049-08	TRANSISTOR	BU2515DX-127	
201	1-408-602-21		8.2UH		Q535	8-729-053-33	TRANSISTOR	IRF614-037	
202	1-408-591-21		1UH		Q570	8-729-120-28			
202	1-408-591-21		8.2UH		Q601			2SA1037AK-T146	
205	1-408-591-21	INDUCTOR	1UH		Q602	8-729-119-78	TRANSISTOR	2SC2/85-HFE	
206	1-535-143-61	LEAD, JUMPER	(5.0MM)		Q603	8-729-029-56	TRANSISTOR	DTA144ESA	
207	1-408-591-21	INDUCTOR	1UH		Q604	8-729-030-02	TRANSISTOR	DTC144ESA	
401	1-410-993-42	INDUCTOR	1UH		Q606	8-729-053-36	TRANSISTOR	2SK2640-01MR	
403	1-410-993-42	INDUCTOR	1UH		Q607	8-729-053-36	TRANSISTOR	2SK2640-01MR	
404	1-410-993-42	INDUCTOR	1UH		Q608	8-729-120-28			
405	1-535-143-61	LEAD, JUMPER	(5 0MM)		Q609	8-729-026-49	TRANSTSTOR	2SA1037AK-T146	
		LEAD, JUMPER			Q1210	8-729-120-28			
410		RES-CHIP		1/10W	Q1210 Q1211	8-729-120-28			
				1/10M					
430		INDUCTOR			Q1230	8-729-027-56			
446	1-216-295-91	SHORT	0		Q1231	8-729-027-56	TRANSISTOR	DTC143TKA-T146	
148	1-216-295-91	SHORT	0		Q1232	8-729-026-49	TRANSISTOR	2SA1037AK-T146	
501	1-414-187-31	INDUCTOR	47UH		Q1233	8-729-026-49	TRANSISTOR	2SA1037AK-T146	
502	1-412-529-41	INDUCTOR	22UH						
503	1-412-521-41	INDUCTOR	4.7UH			< RESISTO	R >		
504		LEAD, JUMPER							
		•	•		JR3	1-216-296-91	SHORT	0	
505	1-412-542-41	INDUCTOR	270UH		JR4	1-216-295-91		0	
507	1-412-533-41		47UH		JR5	1-216-295-91		0	
532	1-412-553-41		3.3MH		JR7	1-216-295-91		0	
533	1-406-989-11		10MH		JR9	1-216-295-91	SHUKT	0	
535	1-459-111-21	INDUCTOR	10MH		TD10	1 016 005 01	OHODE.	٥	
					JR10	1-216-295-91		0	
601	1-408-603-21		10UH		JR16	1-216-296-91		0	
602	1-408-611-21		47UH		JR17	1-216-295-91		0	
		LEAD, JUMPER			JR21	1-216-818-91	RES-CHIP	560 5%	1/10W
1201	1-535-143-61	LEAD, JUMPER	(5.0MM)		JR24	1-216-295-91	SHORT	0	
1203	1-535-143-61	LEAD, JUMPER	(5.0MM)			4 044 055 55	4445-	•	
					JR25	1-216-295-91		0	
	< PHOTO C	OUPLER >			JR26	1-216-295-91		0	
					JR204	1-216-296-91		0	
H601 △	8-749-016-21	IC TCET1103G			JR206	1-216-296-91	SHORT	0	
					JR209	1-216-295-91	SHORT	0	
	< IC LINK	. >			JR210	1-216-295-91	SHORT	0	
31201	1-533-597-31	LINK. TC			JR211	1-216-296-91		0	
vv-	_ 333 337 31				JR213	1-216-295-91		0	
	✓ mpxxoro	·π∩ρ \			JR401	1-216-295-91		0	
	< TRANSIS	10K >			JR401 JR409	1-216-295-91		0	
002	8-729-027-56	TRANSISTOR DTO	:143TKA-T146				7	•	
013	8-729-120-28	TRANSISTOR 2SC	C1623-L5L6		JR418	1-216-296-91	SHORT	0	
014	8-729-120-28	TRANSISTOR 2SC	C1623-L5L6		JR419	1-216-295-91	SHORT	0	
)49		TRANSISTOR 2SO			JR423	1-216-296-91		0	
202		TRANSISTOR 2SO			JR506	1-216-296-91		0	
- 74	0 123 120-20	TIGHOTOTOR 250	,1050 HOHU		JR508	1-216-296-91		0	
	0 720 100 00	MDANGTOMOD 000	11600 TET6		DUCAU	1-710-730-31	SHOWI	U	
000		TRANSISTOR 2SC				4 044 00= 0:	AA.	•	
	8-729-422-33	TRANSISTOR 2SD	-		JR601	1-216-295-91		0	
212		MDANCTOMOD 207	11037AK-T146		JR609	1-216-295-91	SHORT	0	
212 401	8-729-026-49	TRANSISTOR ZSA							
203 212 401 409		TRANSISTOR 2SO			JR610	1-216-296-91	SHORT	0	
212 401	8-729-120-28		C1623-L5L6		JR610 JR1209	1-216-296-91 1-216-295-91		0	



REF.NO.	PART.NO	DESCRIPTION	N		REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
R003	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R072	1-216-295-91	SHORT	0		
R004	1-216-033-91	RES-CHIP	220	5%	1/10W	R074	1-216-073-91	RES-CHIP	10K	5%	1/10W
R005	1-216-041-91	RES-CHIP	470	5%	1/10W	R090	1-216-057-91		2.2K	5%	1/10W
R006	1-216-025-91		100	5%	1/10W	R092	1-216-073-91		10K	5%	1/10W
R007	1-216-025-91		100	5%	1/10W	R094	1-216-025-91		100	5%	1/10W
2.007	1 210 023 31	neo onii	-00	•	1/1011	1071	1 210 020 71	NED OHII	-00	•	1/1011
R008	1-216-025-91	DEC_CUID	100	5%	1/10W	R095	1-216-065-91	DEC-CHID	4.7K	5 &	1/10W
R009	1-216-049-91		1K	5%	1/10W	R096	1-216-073-91		10K	5% 5%	1/10W
					•						
R010	1-216-049-91 1-216-295-91		1K	5%	1/10W	R101	1-216-093-91		68K	5% 5 °	1/10W
R011			0	F 0	1 /1 000	R102	1-216-097-91		100K		1/10W
R012	1-216-121-91	RES-CHIP	1M	5%	1/10W	R103	1-216-210-91	RES-CHIP	3.3K	ეგ	1/8W
5014	1 016 060 01	DEG 6"TD	c 0**	F 0	1 /1 000	2104	1 016 005 01	0110DM	^		
R014	1-216-069-91		6.8K		1/10W	R104	1-216-295-91		0		
R015	1-216-198-91		1K	5%	1/8W	R105	1-414-813-91		0UH		
R017	1-216-025-91		100	5%	1/10W	R106	1-215-900-91		22K	5%	2W
R018	1-208-820-91		39K		1/10W	R107	1-216-025-91		100	5%	1/10W
R020	1-216-077-91	RES-CHIP	15K	5%	1/10W	R108	1-216-025-91	RES-CHIP	100	5%	1/10W
R022	1-216-089-91		47K	5%	1/10W	R201	1-216-025-91		100	5%	1/10W
R023	1-216-035-91	RES-CHIP	270	5%	1/10W	R202	1-216-073-91	RES-CHIP	10K	5%	1/10W
R024	1-216-025-91	RES-CHIP	100	5%	1/10W	R211	1-216-081-91	RES-CHIP	22K	5%	1/10W
R025	1-216-025-91	RES-CHIP	100	5%	1/10W	R212	1-216-069-91	RES-CHIP	6.8K	5%	1/10W
R026	1-216-025-91	RES-CHIP	100	5%	1/10W	R213	1-216-081-91	RES-CHIP	22K	5%	1/10W
R027	1-216-025-91	RES-CHIP	100	5%	1/10W	R214	1-216-041-91	RES-CHIP	470	5%	1/10W
R028	1-216-025-91	RES-CHIP	100	5%	1/10W	R215	1-216-037-91	RES-CHIP	330	5%	1/10W
R029	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R216	1-216-097-91	RES-CHIP	100K	5%	1/10W
R030	1-216-821-91	RES-CHIP	1K	5%	1/16W	R217	1-216-222-91	RES-CHIP	10K	5%	1/8W
R031	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R220	1-216-031-91	RES-CHIP	180	5%	1/10W
			0.01		-, - • · ·					••	-,
R032	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R221	1-216-190-91	RES-CHIP	470	5%	1/8W
R033	1-216-073-91		10K	5%	1/10W	R232	1-216-025-91		100	5%	1/10W
R034	1-216-119-91		820K		1/10W	R233	1-216-069-91		6.8K		1/10W
R035	1-216-101-91		150K		1/10W	R234	1-216-069-91		6.8K		1/10W
R036	1-216-073-91		10K	5%	1/10W	R235	1-216-295-91		0.01	J 0	1/10#
ROJO	1 210 073 31	KES CHII	1010	J 0	1/10#	N233	1 210 293 91	SHORT	v		
R039	1-216-065-91	DEC_CUTD	4.7K	5 9	1/10W	R236	1-216-295-91	CU∩D™	0		
R040	1-216-003-91		220	5%	1/10W	R238	1-216-235-31		100	EQ.	1/10W
	1-216-035-91									5% ⊑∘.	
R041			100	5% F°	1/10W	R246	1-260-107-91		4.7K		1/2W
R042	1-216-025-91		100	5% 5°	1/10W	R248	1-249-429-91		10K	5 %	1/4W
R044	1-216-073-91	KES-CHIP	10K	5%	1/10W	R249	1-216-097-91	KES-CHIP	100K	5 8	1/10W
D045	1 010 005 01	DEG 6775	100	F 0	1 /1 012	D050	1 010 000 01	DEG 2015	00-	Fn	1 /02
R045	1-216-025-91		100	5% 5°	1/10W	R250	1-216-230-91		22K		1/8W
R046	1-216-025-91		100	5% = °	1/10W	R251	1-216-069-91		6.8K		1/10W
R047	1-216-025-91		100	5%	1/10W	R252	1-216-069-91		6.8K	5%	1/10W
R048	1-216-073-91		10K	5%	1/10W	R401	1-410-993-42		1UH	_	
R049	1-216-049-91	RES-CHIP	1K	5%	1/10W	R402	1-216-041-91	RES-CHIP	470	5%	1/10W
R050	1-216-025-91		100	5%	1/10W	R403	1-216-113-91		470K		1/10W
R051	1-216-295-91	SHORT	0			R404	1-216-113-91		470K	5%	1/10W
R052	1-216-295-91	SHORT	0			R405	1-216-831-91		6.8K	5%	1/10W
R053	1-216-077-91	RES-CHIP	15K	5%	1/10W	R406	1-216-296-91	SHORT	0		
R055	1-216-025-91	RES-CHIP	100	5%	1/10W	R407	1-216-022-91	RES-CHIP	75	5%	1/10W
R056	1-216-081-91	RES-CHIP	22K	5%	1/10W	R408	1-216-022-91	RES-CHIP	75	5%	1/10W
R060	1-216-025-91	RES-CHIP	100	5%	1/10W	R409	1-216-025-91	RES-CHIP	100	5%	1/10W
R061	1-216-025-91	RES-CHIP	100	5%	1/10W	R410	1-216-025-91		100	5%	1/10W
R070	1-216-025-91		100	5%	1/10W	R411	1-216-022-91		75	5%	1/10W
R071	1-216-049-91		1K	5%	1/10W	R412	1-216-025-91		100	5 %	1/10W
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REF.NO.	PART.NO	DESCRIPTION	N		REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
R413	1-216-113-91	RES-CHIP	470K	5%	1/10W	R509	1-208-796-91	METAL CHIP	3.9K	0.5%	1/10W
R414	1-216-022-91		75	5%	1/10W	R510	1-216-113-91		470K		1/10W
R415	1-216-022-91		75	5%	1/10W	R512	1-249-382-91		1.2		1/4W
R416	1-216-027-91		120	5%	1/10W	R513	1-216-097-91		100K		1/10W
R417	1-216-113-91		470K		1/10W	R514	1-249-377-91		0.47		1/4W
K417	1-210-113-91	RES-CHIP	4/UK	J**	1/10#	KJ14	1-245-377-31	CARBON	0.47	J*	1/311
R418	1-216-113-91		470K		1/10W	R515	1-249-377-91		0.47	5%	1/4W
R419	1-216-022-91	RES-CHIP	75	5%	1/10W	R516	1-214-907-81		56K	1%	1/2W
R420	1-216-073-91	RES-CHIP	10K	5%	1/10W	R518	1-216-059-91	RES-CHIP	2.7K	5%	1/10W
R421	1-216-049-91	RES-CHIP	1K	5%	1/10W	R520	1-215-884-91	METAL OXIDE	47	5%	2W
R422	1-216-831-91	RES-CHIP	6.8K	5%	1/10W	R522	1-216-097-91	RES-CHIP	100K	5%	1/10W
R423	1-216-113-91	RES-CHIP	470K	5%	1/10W	R523	1-216-117-91	RES-CHIP	680K	5%	1/10W
R424	1-216-113-91		470K		1/10W	R524	1-216-079-91		18K	5%	1/10W
R425	1-216-085-91		33K	5%	1/10W	R526	1-216-089-91		47K	5%	1/10W
R426	1-216-073-91		10K	5%	1/10W	R527	1-216-075-91		12K	5%	1/10W
R427			470K			R527	1-216-073-91		100K		1/10W
K42/	1-216-113-91	KES-CHIP	4/01	36	1/10W	K320	1-210-097-91	KES-CHIP	1001	36	1/10W
R428	1-216-073-91		10K	5%	1/10W	R529	1-216-073-91		10K	5%	1/10W
R429	1-216-089-91	RES-CHIP	47K	5%	1/10W	R530	1-216-085-91		33K	5%	1/10W
R430	1-216-073-91	RES-CHIP	10K	5%	1/10W	R531	1-216-057-91	RES-CHIP	2.2K	5%	1/10W
R431	1-216-073-91	RES-CHIP	10K	5%	1/10W	R533	1-216-081-00	RES-CHIP	22K	5%	1/10W
R433	1-216-073-91	RES-CHIP	10K	5%	1/10W	R539	1-215-892-81	METAL OXIDE	1K	5%	2W
R434	1-216-073-91	RES-CHIP	10K	5%	1/10W	R540	1-212-970-61	FUSIBLE	33	5%	1/2W
R435	1-216-295-91		0		-,	R542	1-216-121-91		1M	5%	1/10W
R438	1-216-022-91		75	5%	1/10W	R543	1-216-065-91		4.7K		1/10W
R439	1-216-022-91		75	5% 5%	1/10W	R544	1-216-003-91		180K		1/10W
R440	1-216-022-91		1K	5% 5%	1/10W	R547		LEAD, JUMPER			1/10#
MIIV	1 210 047 71	NED CHII	-11	30	1/10#	1047	1 333 143 71	HEAD, COMPER	(7.50	1	
R441	1-216-051-91	RES-CHIP	1.2K	5%	1/10W	R549	1-535-143-71	LEAD, JUMPER	(7.5MM	i)	
R442	1-216-085-91	RES-CHIP	33K	5%	1/10W	R551	1-215-867-21	METAL OXIDE	470	5%	1W
R443	1-216-073-91	RES-CHIP	10K	5%	1/10W	R552	1-216-089-91	RES-CHIP	47K	5%	1/10W
R444	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R553	1-249-381-91	CARBON	1	5%	1/4W
R446	1-216-113-91	RES-CHIP	470K	5%	1/10W	R555	1-216-089-91	RES-CHIP	47K	5%	1/10W
R447	1-216-295-91	CHUDA	0			R556	1-215-915-51	METAT OVIDE	470	5 9	3W
	1-216-293-91			E 0.	1 /1 017						
R448			470K	3 8	1/10W	R557	1-216-065-91		4.7K		1/10W
R449	1-216-295-91		0	F 0	4 /4 0	R559			(5.0MM		4 /4 0
R450	1-216-041-91		470	5% 	1/10W	R561	1-216-117-91		680K		1/10W
R451	1-216-041-91	RES-CHIP	470	5%	1/10W	R565	1-216-033-91	RES-CHIP	220	5%	1/10W
R453	1-216-171-91	RES-CHIP	75	5%	1/8W	R568	1-215-915-51	METAL OXIDE	470	5%	3W
R454	1-216-001-91	RES-CHIP	10	5%	1/10W	R569	1-216-073-91	RES-CHIP	10K	5%	1/10W
R455	1-216-295-91	SHORT	0			R570	1-216-049-91	RES-CHIP	1K	5%	1/10W
R460	1-216-049-91	RES-CHIP	1K	5%	1/10W	R571	1-216-035-91	RES-CHIP	270	5%	1/10W
R461	1-216-022-91	RES-CHIP	75	5%	1/10W	R572	1-216-039-91	RES-CHIP	390	5%	1/10W
R462	1-216-029-91	RES-CHID	150	5%	1/10W	R583	1-216-081-91	RES-CHID	22K	5%	1/10W
R500	1-216-029-91		3.3K		1/10W	R589	1-216-295-91		0	J 0	-/ -VII
R500 R501			5.5K	5% 5%		R589 R591	1-215-892-51			Ę٥	2W
	1-216-091-91				1/10W				1K	5% 0 Es	
R502	1-216-073-91		10K	5% ⊑∘	1/10W	R601	1-216-645-91		560		1/10W
R503	1-215-888-21	WETAL OXIDE	220	5%	2W	R602	1-202-961-11	CEMENTED	1.8	5%	10W
R504	1-249-385-91	CARBON	2.2	5%	1/4W	R603	1-202-933-11	FUSIBLE	0.1	10%	1/2W
R505	1-216-667-91	METAL CHIP	4.7K	0.5%	1/10W	R605	1-216-049-91	RES-CHIP	1K	5%	1/10W
R506	1-208-796-91	METAL CHIP	3.9K	0.5%	1/10W	R608	1-216-073-91	RES-CHIP	10K	5%	1/10W
R507	1-216-349-51	METAL OXIDE	1	5%	1W	R609	1-216-677-91	METAL CHIP	12K	0.5%	1/10W
R508	1-216-667-91	METAL CHIP	4.7K	0.5%	1/10W	R610	1-215-481-91	METAL	330K	1%	1/4W





REF.NO.		PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION	N		REMARK
R611		1-216-059-91	RES-CHIP	2.7K	5%	1/10W	R1233	1-216-113-91	RES-CHIP	470K	5%	1/10W
R612		1-249-429-91		10K	5%	1/4W	R1235	1-216-073-91	RES-CHIP	10K	5%	1/10W
R613	Δ	1-219-720-91	METAL	10M	5%	1W	R1236	1-216-073-91	RES-CHIP	10K	5%	1/10W
R615		1-215-385-91	METAL	33	1%	1/4W						•
R618		1-247-889-91	CARBON	270K	5%	1/4W		< RELAY >	•			
R619		1-216-065-91	RES-CHIP	4.7K	5%	1/10W	RY601	△ 1-755-388-11	RELAY (AC PO	WER)		
R621		1-216-113-91	RES-CHIP	470K	5%	1/10W						
R622		1-216-073-91	RES-CHIP	10K	5%	1/10W		< SWITCH	>			
R623		1-216-065-91	RES-CHIP	4.7K	5%	1/10W						
R624		1-216-001-91	RES-CHIP	10	5%	1/10W	SW532	1-572-707-21	SWITCH, LEVE	R		
R625		1-216-073-91	RES-CHIP	10K	5%	1/10W		< TRANSFO	ORMER >			
R627		1-249-389-91	CARBON	4.7	5%	1/4W						
R628		1-247-791-91	CARBON	22	5%	1/4W	T511	△ 1-453-308-31	TRANSFORMER :	ASSY, F	LYBAC	K (NX-4521//Z2B4)
R629		1-216-073-91	RES-CHIP	10K	5%	1/10W	T531	1-437-210-21	TRANSFORMER,	HORIZO	NTAL	DRIVE
R632		1-249-417-91	CARBON	1K	5%	1/4W	T532	1-426-981-91	TRANSFORMER,	FERRIT	E (PM	IT)
							T601	△ 1-427-962-11	TRANSFORMER,	LINE F	ILTER	
R633		1-215-481-91		330K	1%	1/4W	T602	△ 1-431-732-31	TRANSFORMER,	CONVER	TER (SRT)
R634		1-217-625-11	METAL	0.05	10%	2W						
R635		1-260-300-71	CARBON	4.7	5%	1/2W	T603	△ 1-435-977-11	TRANSFORMER,	CONVER	TER (PIT)
R636		1-249-413-91	CARBON	470	5%	1/4W						
R637		1-216-041-91	RES-CHIP	470	5%	1/10W		< THERMIS	STOR >			
R639		1-208-814-91	METAL CHIP	22K	0.5%	1/10W	TH601	1-803-586-41	THERMISTOR			
R640		1-208-830-91	METAL CHIP	100K	0.5%	1/10W						
R641		1-216-097-91	RES-CHIP	100K	5%	1/10W	THP601	△ 1-803-951-11	THERMISTOR,	PTC		
R642		1-249-405-91	CARBON	100	5%	1/4W						
R643		1-216-089-91	RES-CHIP	47K	5%	1/10W		< CRYSTAI	. >			
R645		1-216-073-91	RES-CHIP	10K	5%	1/10W	X001		VIBRATOR, CR			
R647		1-216-049-91	RES-CHIP	1K	5%	1/10W	X201	1-760-628-21	VIBRATOR, CR	YSTAL		
R648		1-215-481-91	METAL	330K		1/4W						
R649		1-208-805-91		9.1K		1/10W	A Boa	ard Variant Par	ts KV-25FX	30		
R650		1-208-758-91	METAL CHIP	100	0.5%	1/10W		< CAPACIT	!OR >			
R651		1-220-926-21	FUSIBLE	0.47	10%	1/2W						
R652		1-216-081-91	RES-CHIP	22K	5%	1/10W	C532	1-163-017-91	CERAMIC	0.0047	UF	10.00% 50V
R653		1-216-073-91	RES-CHIP	10K	5%	1/10W	C536	1-117-813-21	FILM	0.75UF		5.00% 250V
R654		1-216-001-91		10	5%	1/10W	C537	1-137-417-91	MYLAR	0.0047	UF	10.00% 200V
R656		1-216-365-51		0.47	5%	2W	C546	1-130-895-51	FILM	0.0560	F	5.00% 400V
							C547	1-117-813-11	FILM	0.75UF		5.00% 250V
R658		1-202-961-11	CEMENTED	1.8	5%	10W						
R660		1-247-807-91		100	5%	1/4W		< DIODE >	•			
R1202		1-216-073-91	RES-CHIP	10K	5%	1/10W						
R1207		1-216-077-91	RES-CHIP	15K	5%	1/10W	D505	8-719-988-61	DIODE 1SS355	TE-17		
R1208		1-216-067-91	RES-CHIP	5.6K	5%	1/10W						
- 1000		1 016 070 01		10	F 0	1 /10		< RESISTO	OR >			
R1209		1-216-073-91		10K	5% 5°	1/10W	DE17	1 015 454 01	WEMAT	0.477	10	1 / 417
R1210		1-216-077-91		15K	5% 5°	1/10W	R517	1-215-454-91		24K		1/4W
R1211		1-216-049-91		1K	5% 5°	1/10W	R521	1-216-113-91		470K		1/10W
R1212		1-216-057-91		2.2K		1/10W	R525	1-216-057-91		2.2K		1/10W
R1213		1-216-049-91	RES-CHIP	1K	5%	1/10W	R532 R534	1-216-073-91 1-216-109-91		10K 330K		1/10W 1/10W
R1214		1-216-049-91	RES-CHIP	1K	5%	1/10W						
R1215		1-216-049-91		1K	5%	1/10W	R535	1-216-109-91	RES-CHIP	330K	5%	1/10W
R1230		1-216-041-91		470	5%	1/10W	R546	1-215-915-51		470	5%	3W
R1231		1-216-113-91		470K		1/10W	R548	1-212-849-61		4.7	5%	1/4W
R1232		1-216-041-91		470	5%	1/10W	R562	1-216-097-91		100K	5%	1/10W



REF.NO.	PART.NO	DESCRIPTION	JN	REMARK	REF.NO.	PART.NO	DESCRIPTION	UN	REMARK
595	1-249-382-91	CARBON	1.2 5%	1/4W	*A-163	9-021-A C	Board, Co	mplete	
600	1-216-035-91	RES-CHIP	270 5%	1/10W				·	
						4-382-854-01	SCREW (M3X8), P, SW (+)	
	< TRANSFO	RMER >				4-382-854-01	SCREW (M3X8), P, SW (+)	
533	1-435-347-11	TRANSFORMER	, HORIZONTA	L LINEAR		< CAPACI	TOR >		
	< TUNER >	•			C701	1-136-189-91	MYLAR	0.1UF	10.00% 250V
					C702	1-126-964-91	ELECT	10UF	20.00% 50V
U101	8-598-535-10	FRONTEND BT	F-EF411 (KV	-25FX30B)	C703	1-101-004-91	CERAMIC	0.01UF	50V
			-	-25FX30E/25FX30K)	C704	1-107-649-91	ELECT	2.2UF	20.00% 250V
\ Boar	d Variant Par	te KV-20E	X30		C708	1-162-114-51	CERAMIC	0.0047UF	2KV
A Doan	u variant i ai	15 114-231	X30		C710	1-107-652-91	ELECT	10UF	20.00% 250V
	< CAPACIT	'OR >			C1803	1-101-005-91		0.022UF	50V
					C1804	1-126-964-91		10UF	20.00% 50V
530	1-162-970-91	CERAMIC	0.01UF	10.00% 50V	C1805	1-101-880-91		47PF	5.00% 50V
532	1-163-037-91	CERAMIC	0.022UF	10.00% 50V	02000		02112120	•/	3.000
536	1-115-521-21		0.82UF	5.00% 250V		< CONNEC	TOP >		
537	1-106-351-91		0.0022UF	99.00% 200V		CONNEC	101 /		
546	1-130-118-51		0.051UF	5.00% 400V	03700	1 (05 015 01	map /000ma0	m\	
740	1-130-110-31	FILM	0.03101	J.00% 400V	CN702		TAB (CONTAC		
547	1 115 501 11	ETTM	0.0011111	5.00% 250V	CN703	*1-564-510-51			
	1-115-521-11		0.82UF		CN706		TAB (CONTAC	•	
.232	1-115-339-11	CERAMIC	0.1UF	10.00% 50V	CN707	*1-564-508-51	•		
	< DIODE >	•			CN1801	*1-564-506-51	PLUG, CONNE	CTOR 3P	
	(51052)					∠ DIODE			
505	8-719-081-97	DIODE MMDL9	14T1			< DIODE	,		
					D701	8-719-991-33	DIODE 1SS13	3Ͳ-77	
	< RESISTO)R >			D702		DIODE 18883		
	(1201010				D702		DIODE 1883		
517	1-215-447-91	метат	12K 1%	1/4W					
521	1-215-447-91		180K 5%	•	D705	8-719-302-43			
				•	D706	8-719-901-83	DIODE 1SS83		
525	1-216-041-91		470 5%						
532	1-216-059-91		2.7K 5%	•	D707		DIODE 1SS83		
534	1-216-111-91	RES-CHIP	390K 5%	1/10W	D708		DIODE RD6.8		
					D709		DIODE RD6.8		
535	1-216-093-91		68K 5%	•	D710		DIODE RD6.8		
541	1-216-109-91		330K 5%	•	D1801	8-719-110-17	DIODE RD10E	SB2	
546	1-216-479-51		560 5%						
548	1-249-387-91	CARBON	3.3 5%	•	D1802	8-719-110-17	DIODE RD10E	SB2	
562	1-216-099-91	RES-CHIP	120K 5%	1/10W	D1803	8-719-110-17	DIODE RD10E	SB2	
563	1-216-097-91	DEC_CUID	100K 5%	1/10W		< IC >			
595	1-249-377-91		0.47 5%			\ 1C /			
600	1-216-037-91		330 5%	•	T0701	0 750 560 40	TO MD3.6100T	= /s:1 p	
000	1-216-037-91	KES-CHIP	330 36	1/10W	IC701		IC TDA6108J	E./NTR	
	< TRANSFO	RMER >			IC1801	8-759-603-37	IC M5216P		
	,					< SOCKET	>		
533	1-433-906-11	TRANSFORMER	, HORIZONTA	L LINEAR					
	< TUNER >	•			J701 Z	△ 1-251-732-11	SOCKET, CRT		
	(10HHI /					< COIL >			
U101	8-598-535-10	FRONTEND BT	F-EF411 (KV	-29FX30B)					
			-	-29FX30E/29FX30K)	L704	1-414-183-31	INDUCTOR	10UH	
						< RESIST	OR >		



EF.NO.	PART.NO	DESCRIPTION	ν		NEW	IARK	REF.NO.	PART.NO	DESCRIPTION		nLiv	IARK
)2	1-249-429-91	CARBON	10K	5%	1/4W		C1905	1-137-374-91	MYLAR	0.047UF	5.00%	50V
}	1-247-903-91	CARBON	1M	5%	1/4W		C1906	1-162-970-91	CERAMIC CHIP	0.01UF	10.00%	25V
4	1-535-143-31	LEAD, JUMPER	(15.0M	M)			C1908	1-109-954-91	ELECT	0.47UF	20.00%	160V
5	1-215-869-21	METAL OXIDE	1K	5%	1W		C1911	1-109-954-91	ELECT	0.47UF	20.00%	160V
)6	1-249-411-91	CARBON	330	5%	1/4W		C1913	1-129-992-91	FILM	0.0024UF	5.00%	630V
12	1-215-869-21	METAL OXIDE	1K	5%	1W		C1914	1-102-244-91	CERAMIC	220PF	10.00%	500V
16	1-249-411-91	CARBON	330	5%	1/4W		C1915	1-136-205-91	MYLAR	0.022UF	10.00%	250V
18	1-202-814-91	SOLID	33K	10%	1/2W		C1916	1-162-962-91	CERAMIC CHIP	470PF	10.00%	50V
26	1-215-869-21	METAL OXIDE	1K	5%	1W		C1951	1-126-964-91	ELECT	10UF	20.00%	50V
27	1-249-411-91	CARBON	330	5%	1/4W		C1952	1-126-964-91	ELECT	10UF	20.00%	50V
28	1-249-398-91	CARBON	27	5%	1/4W		C1953	1-137-367-91	MYLAR	0.0033UF	5.00%	50V
41	1-202-549-81	SOLID	100	20%	1/2W		C1954	1-162-970-91	CERAMIC CHIP	0.01UF	10.00%	25V
801	1-249-441-91	CARBON	100K	5%	1/4W		C1957	1-126-964-91	ELECT	10UF	20.00%	50V
805	1-249-429-91	CARBON	10K	5%	1/4W		C1958	1-136-169-91		0.22UF	5.00%	
306	1-247-899-91		680K	5%	1/4W		C1959	1-136-169-91		0.22UF	5.00%	
307	1-249-429-91	CARBON	10K	5%	1/4W			< CONNECT	OR >			
308	1-249-429-91	CARBON	10K	5%	1/4W							
309	1-249-429-91	CARBON	10K	5%	1/4W		CN1701	1-691-771-11	PLUG (MICRO (CONNECTOR) 9	P	
310	1-249-429-91	CARBON	10K	5%	1/4W		CN1702	*1-564-506-51	•	•		
	,n.	B DEGLOSOP :					CN1718	*1-770-723-11	•		D 8P	
700		E RESISTOR >		.,				< DIODE >				
	1-241-656-11	RES, ADJ, MET	rΔi. TTĨ.	M II∩Mi								
102	1 241 030 11	120/ 120/ 121	IAU FIU	M IIVM			D1711	8-719-988-61	DIODE 1SS355	re-17		
		M Board, Co				(30)						
\-164	5-046-A VI		mplet	te (KV	/-25FX		D1719	8-719-991-33	DIODE 1SS133	r-77		
\-164 \-164	5-046-A VI 5-048-A VI	M Board, Co M Board, Co	mplet	te (KV	/-25FX		D1719 D1722	8-719-991-33 8-719-991-33	DIODE 1SS1337 DIODE 1SS1337	r-77 r-77		
A-164 A-164	5-046-A VI	M Board, Co M Board, Co	mplet	te (KV	/-25FX		D1719	8-719-991-33 8-719-991-33 8-719-921-40	DIODE 1SS133	r-77 r-77 -4.7C		
A-164 A-164	5-046-A VI 5-048-A VI	M Board, Co M Board, Co ı Parts	mplet	te (KV	/-25FX		D1719 D1722 D1733	8-719-991-33 8-719-991-33 8-719-921-40	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T-	r-77 r-77 -4.7C		
A-164	5-046-A VI 5-048-A VI ard, Common	M Board, Co M Board, Co ı Parts	mplet	te (KV	/-25FX		D1719 D1722 D1733 D1734	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-302-43	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z	r-77 r-77 -4.7C -4.7C		
A-164 A-164 M Bo	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91	M Board, Co M Board, Co I Parts FOR >	ompletomplet	te (KV	7-25FX 7-29FX	25V	D1719 D1722 D1733 D1734	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-302-43 8-719-991-33	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T-	r-77 r-77 -4.7c -4.7c		
A-164 A-164	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91	M Board, Co M Board, Co I Parts	ompletomplet	te (KV	/-25F) /-29F)	25V	D1719 D1722 D1733 D1734 D1840 D1901 D1902	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-302-43 8-719-991-33 8-719-991-33	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337	r-77 r-77 -4.7C -4.7C -77		
A-164 A-164 M Bo	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91	M Board, Co M Board, Co I Parts FOR >	ompletomplet	te (KV	7-25FX 7-29FX	25V 25V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-302-43 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337	r-77 r-77 -4.7c -4.7c -77 r-77		
A-164 A-164 M Bo	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91	M Board, Co M Board, Co Parts OR > ELECT CERAMIC CHIP CERAMIC CHIP	ompletomplet	te (KV	7-25FX 7-29FX 20.00%	25V 25V 25V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-302-43 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337	r-77 r-77 -4.7c -4.7c -77 r-77		
A-164 A-164 M Bo 701 702 703 704	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91	M Board, Co M Board, Co Parts OR > ELECT CERAMIC CHIP CERAMIC CHIP	omplet	te (KV	7-25FX 7-29FX 20.00% 10.00% 5.00%	25V 25V 25V 50V 25V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-302-43 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337	2-77 2-77 4.7C 4.7C 4.7C 2-77 2-77		
A-164 A-164 M Bo 701 702 703 704	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91	M Board, Co M Board, Co Parts OR > ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP	omplet	te (KV	20.00% 10.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-302-43 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337	2-77 2-77 -4.7C -4.7C 2-77 2-77 2-77		
A-164 A-164 M Bo 701 702 703 704 705	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91 1-106-375-81	M Board, Co M Board, Co M Parts OR > ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP	omplet	te (KV	20.00% 10.00% 5.00%	25V 25V 25V 50V 25V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337	1-77 1-77 -4.7C -4.7C 1-77 1-77 1-77 1-77		
A-164 A-164 M Bo 701 702 703 704 705	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91	M Board, Co M Board, Co M Parts OR > ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP	100UF 0.01UF 150PF 100UF 22PF	te (KV	20.00% 10.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87	DIODE 1SS1337 DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-0 DIODE ERA38-0	1-77 1-77 -4.7C -4.7C 1-77 1-77 1-77 1-77		
A-164 M Bo 701 702 703 704 705	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91 1-106-375-81	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF	te (KV te (KV	20.00% 10.00% 5.00% 10.00%	25V 25V 25V 50V 25V 50V 250V 250V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-970-87 8-719-300-33	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE ERA38-0 DIODE ERA38-0 DIODE RA38-0	r-77 r-77 -4.7C -4.7C -77 r-77 r-77 r-77		
A-164 A-164 M Bo 701 702 703 704 705 710 711	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91 1-106-375-81 1-106-375-81	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 0.022U	te (KV te (KV	20.00% 10.00% 5.00% 20.00% 5.00%	25V 25V 25V 50V 25V 50V 250V 250V 250V 160V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE ERA38-0 DIODE ERA38-0 DIODE RA38-0	r-77 r-77 -4.7C -4.7C -77 r-77 r-77 r-77		
A-164 A-164 M Bo 701 702 703 704 705 710 711 721 722	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91 1-106-375-81 1-106-375-81 1-107-639-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 0.022U 47UF	te (KV te (KV	20.00% 10.00% 5.00% 20.00% 5.00% 10.00% 10.00% 20.00%	25V 25V 25V 50V 25V 50V 250V 250V 250V 160V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-970-87 8-719-300-33	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE RD15ES- DIODE ERA38-(DIODE RW-3AM DIODE 1SS1337	r-77 r-77 -4.7C -4.7C -77 r-77 r-77 r-77		
A-164 A-164 M Bo	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91 1-106-375-81 1-107-639-91 1-136-153-81	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 0.022U 47UF 0.01UF	te (KV te (KV	20.00% 10.00% 5.00% 20.00% 5.00% 10.00% 10.00% 20.00% 5.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 FERRITE	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD >	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 M Bo 701 702 703 704 705 710 711 721 722 723	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-106-375-81 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF	te (KV te (KV	20.00% 10.00% 5.00% 10.00% 5.00% 10.00% 20.00% 20.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V 10V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD >	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 A-164 M Bo 701 702 703 704 705 710 711 721 722 723	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-106-375-81 1-106-375-81 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF	te (KV te (KV	20.00% 10.00% 5.00% 10.00% 5.00% 10.00% 20.00% 5.00% 20.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V 10V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 < FERRITE 1-535-143-61	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD >	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 A-164 M Bo 701 702 703 704 705 710 711 721 722 723 728 733 734	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-106-375-81 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-104-664-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF	te (KV te (KV	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 20.00% 20.00%	25V 25V 25V 50V 25V 50V 250V 250V 160V 50V 10V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 FERRITE	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD >	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 A-164 M Bo 701 702 703 704 705 710 711 721 722 723 728 733 734 737	5-046-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-106-375-81 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-126-935-91 1-104-664-91 1-104-664-91	M Board, Co M Board, Chip MYLAR MYLAR MYLAR MYLAR MYLAR ELECT FILM ELECT ELECT ELECT ELECT MYLAR	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF 47UF 47UF	te (KV te (KV	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 20.00% 20.00% 20.00% 20.00%	25V 25V 25V 50V 25V 50V 250V 250V 160V 50V 10V 25V 25V 25V 20V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 < FERRITE 1-535-143-61	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD > LEAD, JUMPER	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 A-164 M Bo 701 702 703 704 705 711 721 722 723 728 733 734 737 844	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-104-664-91 1-104-664-91 1-104-999-51 1-129-716-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF 470UF 0.1UF 0.015U	FF	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 20.00% 20.00% 20.00% 20.00% 20.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V 160V 50V 10V 10V 25V 25V 25V 25V 26V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909 FB1701	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 <a col<="" color="" href="FERRITE" logs="" of="" td="" the=""><td>DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE RRA38-(DIODE</td><td>7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77</td><td></td><td></td>	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE RRA38-(DIODE	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 A-164 M Bo 701 702 703 704 705 710 711 722 723 728 733 734 737 844	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-162-919-91 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-104-664-91 1-104-664-91 1-104-999-51 1-129-716-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF 470UF 0.1UF 0.015U	te (KV te (KV	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 20.00% 20.00% 20.00% 20.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V 10V 25V 25V 25V 200V 630V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909 FB1701	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 <pre> </pre> <pre> <pre></pre></pre>	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD > LEAD, JUMPER IC BA09T IC LM393N	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 M Bo 101 102 103 104 105 110 111 121 122 123 128 133 134 137 144 145 148	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-104-665-91 1-104-665-91 1-106-375-81 1-106-375-81 1-106-375-81 1-106-375-81 1-104-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-104-664-91 1-104-999-51 1-129-716-91 1-129-725-91 1-136-347-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF 470UF 47UF 0.1UF 0.015U 0.082U 0.0047	FFF	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 20.00% 20.00% 20.00% 20.00% 5.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V 10V 25V 25V 200V 630V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909 FB1701	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-970-87 8-719-991-33	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD > LEAD, JUMPER IC BA09T IC LM393N	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 M Bo 101 102 103 104 105 110 111 121 122 123 128 133 134 137 144 145 148 101	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-106-375-81 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-126-935-91 1-129-716-91 1-104-664-91 1-104-999-51 1-129-716-91 1-129-725-91 1-136-347-91 1-162-927-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF 47UF 0.1UF 0.015U 0.082U 0.0047 100PF	re (KV	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 5.00% 20.00% 5.00% 20.00% 5.00% 5.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V 10V 25V 25V 25V 200V 630V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909 FB1701	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-970-87 8-719-991-33	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD > LEAD, JUMPER IC BA09T IC LM393N	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
01 002 003 004 005 110 111 221 222 23 334 445 448 001 002	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-106-375-81 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-104-664-91 1-104-999-51 1-104-999-51 1-129-716-91 1-129-725-91 1-136-347-91 1-162-927-91 1-137-374-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF 470UF 47UF 0.1UF 0.015U 0.082U 0.0047 100PF 0.047U	te (KV te (KV F	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 5.00% 20.00% 20.00% 5.00% 5.00% 5.00% 5.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V 10V 10V 25V 25V 200V 630V 400V 630V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909 FB1701	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 <pre> </pre> <pre> <pre></pre></pre>	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE ELIZ DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE RD15ES- DIODE ERA38-(DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD > LEAD, JUMPER IC BA09T IC LM393N	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
01 002 003 004 005 110 111 221 222 23 334 445 448 001 002	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-106-375-81 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-126-935-91 1-129-716-91 1-104-664-91 1-104-999-51 1-129-716-91 1-129-725-91 1-136-347-91 1-162-927-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF 47UF 0.1UF 0.015U 0.082U 0.0047 100PF	te (KV te (KV F	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 5.00% 20.00% 5.00% 20.00% 5.00% 5.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V 10V 10V 25V 25V 200V 630V 400V 630V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909 FB1701	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 <pre> </pre> <pre> <pre></pre></pre>	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE ERA38-0 DIODE ERA38-0 DIODE ERA38-0 DIODE ERA38-0 LEAD > LEAD , JUMPER IC BA09T IC LM393N IC LM358N	7-77 7-77 -4.7C -4.7C -77 7-77 7-77 7-77		
A-164 M Bo 101 102 103 104 105 110 111 121 122 123 128 133 134 137 144 145	5-046-A VI 5-048-A VI 5-048-A VI ard, Common < CAPACIT 1-104-665-91 1-162-970-91 1-162-955-91 1-104-665-91 1-106-375-81 1-106-375-81 1-107-639-91 1-136-153-81 1-126-935-91 1-126-935-91 1-104-664-91 1-104-999-51 1-104-999-51 1-129-716-91 1-129-725-91 1-136-347-91 1-162-927-91 1-137-374-91	M Board, Co M Boar	100UF 0.01UF 150PF 100UF 22PF 0.022U 47UF 0.01UF 470UF 470UF 470UF 47UF 0.1UF 0.015U 0.082U 0.0047 100PF 0.047U	te (KV te (KV F	20.00% 10.00% 5.00% 20.00% 5.00% 20.00% 5.00% 20.00% 20.00% 5.00% 5.00% 5.00% 5.00% 5.00% 5.00%	25V 25V 25V 50V 25V 50V 250V 160V 50V 10V 10V 25V 25V 200V 630V 400V 630V 50V	D1719 D1722 D1733 D1734 D1840 D1901 D1902 D1903 D1904 D1905 D1906 D1907 D1908 D1909 FB1701 IC1701 IC1901 IC1902	8-719-991-33 8-719-991-33 8-719-921-40 8-719-921-40 8-719-921-40 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-970-87 8-719-970-87 8-719-300-33 8-719-991-33 <pre> </pre> <pre> <pre>FERRITE 1-535-143-61 </pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre< td=""><td>DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD > LEAD, JUMPER IC BA09T IC LM393N IC LM358N INDUCTOR</td><td>1-77 1-77 1-4.7C 4.7C 4.7C 1-77 1-77 1-77 1-77 1-77 (5.0MM)</td><td></td><td></td></pre<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	DIODE 1SS1337 DIODE MTZJ-T- DIODE MTZJ-T- DIODE MTZJ-T- DIODE EL1Z DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337 DIODE ERA38-(DIODE RU-3AM DIODE 1SS1337 BEAD > LEAD, JUMPER IC BA09T IC LM393N IC LM358N INDUCTOR	1-77 1-77 1-4.7C 4.7C 4.7C 1-77 1-77 1-77 1-77 1-77 (5.0MM)		



REF.NO.	PART.NO	DESCRIPTIO	N		REMA	RK REF.	NO.	PART.NO	DESCRIPTION			REMARK
1843	1-406-989-11	INDUCTOR	10MH			R173	39	1-535-143-61	LEAD, JUMPER	(5.0MM)	
1901	1-406-677-21	INDUCTOR	10MH			R184	12	1-216-025-91	RES-CHIP	100	5%	1/10W
1902	1-414-177-31	INDUCTOR	1UH			R184	16	1-216-057-91	RES-CHIP	2.2K	5%	1/10W
.959	1-406-679-21	INDUCTOR	22MH			R190		1-216-073-91		10K	5%	1/10W
						R190		1-216-073-91		10K	5%	1/10W
	< TRANSIS	TOR >								444		4 /4 0
701	0 700 100 00	MD11/474MAD 0	201 (00)			R190		1-216-097-91		100K		1/10W
L701		TRANSISTOR 25				R190		1-216-073-91		10K		1/10W
1704		TRANSISTOR 25			6-R	R190		1-216-097-91		100K	5%	1/10W
1705		TRANSISTOR 2				R190)8	1-216-033-91	RES-CHIP	220	5%	1/10W
1706	8-729-026-39	TRANSISTOR 25	SA933AS-	-QT		R190)9	1-215-489-91	METAL	680K	1%	1/4W
1707	8-729-049-09	TRANSISTOR BO	2327-25									
						R191		1-216-295-91		0		
1708		TRANSISTOR 2				R191	l1	1-216-073-91	RES-CHIP	10K	5%	1/10W
1709	8-729-119-78	TRANSISTOR 25	SC2785-I	IFE		R191	L2	1-216-121-91	RES-CHIP	1M	5%	1/10W
1710	8-729-049-10	TRANSISTOR BO	2337-25			R191	L3	1-216-049-91	RES-CHIP	1K	5%	1/10W
1711	8-729-045-04	TRANSISTOR 25	SC5511			R191	L4	1-216-057-91	RES-CHIP	2.2K	5%	1/10W
1840	8-729-119-76	TRANSISTOR 25	SA1175-E	IFE								
						R191	15	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
1841	8-729-039-68	TRANSISTOR I	RF620			R191	L6	1-216-667-91	METAL CHIP	4.7K	0.5%	1/10W
1901	8-729-120-28	TRANSISTOR 25	SC2412K-	-T-14	6-R	R191		1-216-693-91		56K		1/10W
1902	8-729-120-28	TRANSISTOR 25	SC2412K-	-T-14	6-R	R191		1-216-675-91		10K		1/10W
1903		TRANSISTOR 29				R192		1-216-295-91		0		-/ - • · · ·
1906		TRANSISTOR 25			6-R	1/192		1 210 233 31	OHOM	v		
						R192	22	1-215-919-91	METAL OXIDE	2.2K	5%	3W
1907	8-729-140-97	TRANSISTOR 25	SB734-34	1		R192	23	1-216-097-91		100K		1/10W
						R192		1-216-097-91		100K		1/10W
	< RESISTO	R >				R192		1-216-097-91		100K		1/10W
		/				R192		1-216-295-91		0	J 0	1/100
1701	1-216-814-91	RES-CHIP	270	5%	1/16W	K192	20	1-210-293-91	SHORT	U		
1702	1-216-814-91		270	5%	1/16W	R195	:2	1-216-107-91	DEC_CUID	270K	5 9	1/10W
1709	1-216-825-91		2.2K		1/16W							1/10W
1710	1-216-839-91		33K	5%	1/16W	R195		1-216-109-91		330K		
						R195		1-216-105-91		220K		1/10W
21711	1-216-823-91	KES-CHIP	1.5K	36	1/16W	R195		1-218-463-91		8.2M		1/10W
1712	1-216-824-91	DEC_CHID	1.8K	5 &	1/16W	R195	0 /	1-216-073-91	RES-CHIP	10K	58	1/10W
1713	1-216-809-91			5%	1/16W	210	-^	1 016 005 01	DEG 6017D	100	F 0	1 /1 0**
						R195		1-216-025-91		100		1/10W
1714	1-260-089-81		150		1/2W	R195		1-216-063-91		3.9K		1/10W
1719	1-216-822-91		1.2K		1/16W	R196		1-216-073-91		10K	5%	1/10W
1720	1-249-433-91	CARBON	22K	5%	1/4W	R196		1-216-687-91				1/10W
1701	1 040 400 01	ar prov	00**	FO	1 / 4	R196	52	1-216-687-91	METAL CHIP	33K	0.5%	1/10W
1721	1-249-433-91		22K		1/4W			4 44 44=		4.5.5	=.	4 /4 00-
1722	1-216-822-91		1.2K		1/16W	R196		1-216-025-91		100	5%	1/10W
1723	1-249-399-91		33	5% -^	1/4W	R196	55	1-216-041-91	RES-CHIP	470	5%	1/10W
1724	1-216-830-91		5.6K		1/16W							
1725	1-247-889-91	CARBON	270K	5%	1/4W			< TRANSFO	RMER >			
1726	1-247-889-91	CARBON	270K	5%	1/4W	T190	11	1_/32_0/0_11	TRANSFORMER,	דאגואער	ר בירטיי	·c
1727	1-216-830-91		5.6K		1/16W	1190	/1	1-400-045-11	INNISTURIER,	LIMMIT	C FUCU	U .
1728	1-249-399-91		33	5%	1/10W 1/4W	1/4	l Boo	rd Variant De	arts KV-25F	X30		
						VIV	ı DOğl	u variant Pa	arts KV-25F	X-5-U		
1729	1-249-407-91			5% ⊑∘	1/4W			/ DECTA=0	n \			
1732	1-249-407-91	CAKBON	150	5%	1/4W			< RESISTO	K >			
1733	1-214-809-81	METAL	5.1	1%	1/2W	R184	17	1-216-474-21	METAL OXIDE	82	5%	3W
1734	1-214-809-81		5.1		1/2W	R184			METAL OXIDE		5%	3W
1735	1-215-922-21		6.8K		3W	R191			METAL OXIDE			3W
1736	1-215-922-21		1K	5%	2W	R192		1-216-485-21		5.6K		3W
1737	1-215-892-21			5%	2 W 1 W			1-216-485-21				
	T-513-00/-51	LIETUT OVIDE	* / U	J O	TM	R193	ıΤ	T-5T0-003-3T	VED-CUTI	39K	J6	1/10W



REF.NO.	PART.NO	DESCRIPTION	ON	RE	MARK	REF.NO.	PART.NO	DESCRIPTION	<u> </u>		REMARK
R1966	1-215-887-51	METAL OXIDE	150 5%	2W		D906	8-719-923-60	DIODE MTZJ-T-	77-9.1	.А	
R1967	1-215-917-51	METAL OXIDE	1K 5%	3W		D907	8-719-923-60	DIODE MTZJ-T-	77-9.1	.A	
R1968	1-215-887-51	METAL OXIDE	150 5%	2W		D908	8-719-923-60	DIODE MTZJ-T-	77-9.1	.A	
R1969	1-215-917-51	METAL OXIDE	1K 5%	3W							
VM Ro	eard Variant Pa	arte KV-201	-V20				< IC >				
VIVI BO			ASU			IC900	8-742-180-30	HYB IC SBX308	1-51 (2	(0)	
	< CAPACII	:UR >					. 73.07				
C1917	1-102-228-91	CERAMIC	470PF 10	.00% 5	00V	7000	< JACK >	73.07			
	< RESISTO	OR >				Ј900 Ј901	1-750-264-11 1-779-947-12	TERMINAL BLOC	Ж, S		
R1847	1-216-476-21	METAL OXIDE	180 5%	3W			< COIL >				
R1848	1-215-911-21	METAL OXIDE	100 5%	3W							
R1918	1-215-922-91	METAL OXIDE	6.8K 5%	3W		L900	1-414-740-21	INDUCTOR	4.70	ΙΉ	
R1921	1-215-922-91	METAL OXIDE	6.8K 5%	3W		L901	1-414-740-21	INDUCTOR	4.70	ΙΉ	
R1931	1-216-691-91	RES-CHIP	47K 5%	1/10W		L902	1-414-934-21		10UH		
						L903	1-414-934-21		10UH		
R1966	1-215-886-91	METAL OXIDE	100 5%	2W		L904	1-410-119-21		1MH		
R1967	1-215-922-51	METAL OXIDE	6.8K 5%	3W							
R1968	1-215-886-91	METAL OXIDE	100 5%	2W			< RESISTO	R >			
R1969	1-216-485-21	METAL OXIDE	5.6K 5%	3W							
						R900	1-247-807-91	CARBON	100	5%	1/4W
*A-164	16-240-A H	1 Board, Co	omplete			R901	1-249-427-91	CARBON	6.8K	5%	1/4W
						R902	1-535-143-61	LEAD, JUMPER	(5.0MM	I)	
	4-203-258-02	HOLDER, LED				R903	1-249-406-91	CARBON	120	5%	1/4W
	< CAPACIT	!OR >				R904	1-249-406-91	CARBON	120	5%	1/4W
						R908	1-249-401-91	CARBON	47	5%	1/4W
C900	1-102-074-91		0.001UF	10.00%		R909	1-247-895-91	CARBON	470K	5%	1/4W
C901	1-102-074-91		0.001UF	10.00%		R910	1-247-895-91	CARBON	470K	5%	1/4W
C902	1-137-372-91		0.022UF	5.00%		R911	1-249-431-91	CARBON	15K	5%	1/4W
C903	1-137-372-91		0.022UF	5.00%		R912	1-249-429-91	CARBON	10K	5%	1/4W
C904	1-104-665-91	ELECT	100UF	20.00%	250	D012	1-247-843-91	CARRON	2 217	E 0.	1 / 414
C905	1-126-964-91	ELECT	10UF	20.00%	50V	R913 R914		*			1/4W
C906	1-126-960-91		1UF	20.00%		R914 R915	1-249-419-91		1.5K		1/4W
C907	1-126-960-91		1UF	20.00%		R915	1-249-406-91 1-249-406-91		120	5% 5 %	1/4W
C908	1-137-366-91		0.0022UF	5.00%					120	5% 5 %	1/4W
C909	1-137-366-91		0.0022UF	5.00%		R917	1-247-807-91	CARBON	100	5%	1/4W
						R918	1-247-807-91	CARBON	100	5%	1/4W
C911	1-102-074-91	CERAMIC	0.001UF	10.00%	50V						
C912	1-102-074-91	CERAMIC	0.001UF	10.00%	50V		< SWITCH	>			
	< CONNECT	OR >				S900	1-692-979-11	SWITCH, TACTI	LE		
						S901	1-692-979-11	SWITCH, TACTI	.LE		
CN906	*1-564-511-51	•				S902	1-692-979-11	SWITCH, TACTI	LE		
CN907	*1-564-510-51										
CN908	*1-564-509-51	PLUG, CONNEC	TOR 6P								
	< DIODE >	•									
D901	8-719-302-45	DIODE SEL121	.0S-D								
D902	8-719-929-15	DIODE HZS9.1	NB2								
D903	8-719-929-15	DIODE HZS9.1	NB2								
D904	8-719-109-97	DIODE RD6.8E	S-B2								
D905	8-719-109-97	DIODE RD6.8E	S-B2								

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO. PART.NO DESCRIPTION REMARK REF.NO. PART.NO DESCRIPTION REMARK

MISCELLANEOUS

Δ	1-571-433-31	SWITCH, PUSH (AC POWER)
Δ	1-783-083-11	CORD, POWER (WITH FILTER)
	1-424-733-11	
Δ	1-453-308-31	TRANSFORMER ASSY, FLYBACK (NX4521//Z2B4)
	8-598-535-10	FRONTEND BTF-EF411 (KV-25FX30B/29FX30B)
	8-598-533-00	FRONTEND BTF-EC411 (KV-25FX30E/25FX30K
	1-529-988-11	SPEAKER (4.2X24CM)
Δ	8-753-250-05	PICTURE TUBE (A60LPN70X) (KV-25FX30)
Δ	8-753-053-05	PICTURE TUBE (M68LNH060X) (KV-29FX30)
	1-451-475-11	DEFLECTION YOKE (Y25RSA) (KV-25FX30)
	8-451-494-51	DEFLECTION YOKE (Y29RSA-L) (KV-29FX30)
	1-452-896-11	COIL, NA ROTATION (RT-200)
Δ	1-419-142-11	COIL DEGAUSSING (KV-25FX30)
Δ	1-416-654-11	COIL DEMAGNETIC (KV-29FX30)
	8-453-011-11	NECK ASSY, NA299M
Δ	1-251-537-22	CAP ASSY, HIGH VOLTAGE
	1-452-094-11	

ACCESSORIES AND PACKAGING MATERIALS

1-452-032-11 MAGNET, DISK; 10MM

*4-029-168-01 *4-204-807-01 *4-204-780-01	BAG, PROTECTION CUSHION (LOWER) (ASSY) (KV-25FX30) CUSHION (LOWER) (ASSY) (KV-29FX30)
*4-204-810-01	CUSHION (UPPER) (ASSY) (KV-25FX30)
*4-204-783-01	CUSHION (UPPER) (ASSY) (KV-29FX30)
*4-204-811-11	INDIVIDUAL CARTON (KV-25FX30)
*4-204-784-11	INDIVIDUAL CARTON (KV-29FX30)
4-206-062-21	INSTRUCTION MANUAL (KV-25FX30B/29FX30B)
	(GERMAN/FRENCH/ITALIAN/DUTCH)
4-206-060-11	INSTRUCTION MANUAL (KV-25FX30E/29FX30E) (ITALIAN)
4-206-060-51	INSTRUCTION MANUAL (KV-25FX30E/29FX30E) (GERMAN/GREEK/TURKISH)
4-206-060-61	INSTRUCTION MANUAL (KV-25FX30E/29FX30E)

4-206-060-31 INSTRUCTION MANUAL (KV-25FX30K/29FX30K)
(BULGARIAN/CZECH/ENGLISH/HUNGARIAN/
POLISH/RUSSIAN)

SWEDISH/FINNISH)

(DANISH/SPANISH/NORWEGIAN/PORTUGUESE/

REMOTE COMMANDER

1-418-476-21 COMMANDER, STANDARD (RM-887)

TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

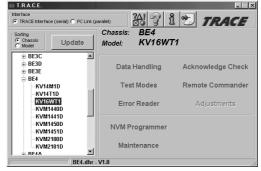
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I²C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing 1²C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers: TRACE Starter Kit (TRACE interface + software): 9-948-320-70

TRACE Software (for users of the I²C Link interface): 9-948-340-80 TRACE IR Add-on (IR interface + Remote Commander software): 9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

^{*} WindowsNT only supported with TRACE interface